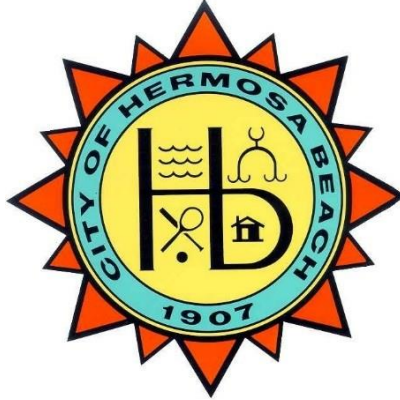


Sewer System Management Plan  
April 25, 2018  
Revised: December 4, 2024



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## ABBREVIATIONS

|           |                                                            |
|-----------|------------------------------------------------------------|
| BMP       | : Best Management Practice                                 |
| CALOSHA   | : California Occupational Safety and Health Administration |
| CCTV      | : Closed Circuit Television                                |
| CIP       | : Capital Improvement Plan                                 |
| CIPP      | : Cured in Place Pipe                                      |
| CIWQS     | : California Integrated Water Quality System               |
| CMMS      | : Computerized Maintenance Management System               |
| CWC       | : California Water Code                                    |
| CWEA      | : California Water Environment Association                 |
| EPA       | : Environmental Protection Agency                          |
| FOG       | : Fats, Oils, and Grease                                   |
| GIS       | : Geographic Information Systems                           |
| GPM       | : Gallons per minute                                       |
| HBMC      | : City of Hermosa Beach Municipal Code                     |
| I/I       | : Infiltration/Inflow                                      |
| LACC      | : Los Angeles County Code                                  |
| LRO       | : Legally Responsible Official                             |
| MRP       | : Monitoring and Reporting Program                         |
| NOI       | : Notice of Intent                                         |
| State OES | : Office of Emergency Services                             |
| O&M       | : Operations and Maintenance                               |
| PWD       | : Public Works Director                                    |
| RWQCB     | : Regional Water Quality Control Board                     |
| SO&M      | : Sewer Operations and Maintenance                         |
| SSMP      | : Sewer System Management Plan                             |
| SSO       | : Sanitary Sewer Overflow                                  |
| SWRCB     | : State Water Resources Control Board                      |
| UPC       | : Uniform Plumbing Code                                    |
| VCP       | : Vitrified Clay Pipe                                      |
| WDR       | : Waste Discharge Requirements                             |

## DEFINITIONS

**Blockage or Stoppage** - A buildup of debris in the main sewer line or lateral, which obstructs the flow of wastewater and allows the waste flow to back up behind the blockage, sometimes causing an overflow.

**California Integrated Water Quality System (CIWQS)** - CIWQS is the statewide database that provides for mandatory electronic reporting as required in State and Regional Water Board-issued waste discharge requirements.

**Drainage Conveyance System** - A drainage conveyance system is a publicly- or privately-owned separate storm sewer system, including but not limited to drainage canals, channels, pipelines, pump stations, detention basins, infiltration basins/facilities, or other facilities constructed to transport stormwater and non-stormwater flows.

**Geographical Information System (GIS)** – A computerized database linked with mapping, which includes various layers of information used for asset management purposes. A GIS typically contains base information such as streets and parcels. Examples of information contained in sewer system GIS files can include: a sewer main map, sewer features such as pipe location, diameter, material, condition, age, last date cleaned or repaired, and links to pictures or video inspections.

**Infiltration/Inflow (I/I)** -- Infiltration is generally extraneous subsurface water that enters the sewer system over long periods of time, such as groundwater seepage through joints, cracks and manhole structures. Inflow is generally extraneous surface waters that enters the system during a storm or flooding event, such as through manholes, illicit drain connections or other defects in the sewer. While it is impossible to control all I/I, it is highly desirable to reduce I/I when cost-effective.

**Lateral (including Lower and Upper Lateral)** - A lateral is an underground segment of smaller diameter pipe that transports sewage from a customer's building or property (residential, commercial, or industrial) to the Enrollee's main sewer line in a street or easement. Upper and lower lateral boundary definitions are subject to local jurisdictional codes and ordinances, or private system ownership.

A **lower lateral** is the portion of the lateral located between the sanitary sewer system main, and either the property line, sewer clean out, curb line, established utility easement boundary, or other jurisdictional locations.

An **upper lateral** is the portion of the lateral from the property line, sewer clean out, curb line, established utility easement boundary, or other jurisdictional locations, to the building or property.

**Legally Responsible Official** - A Legally Responsible Official is an official representative, designated by the Enrollee, with authority to sign and certify submitted information and documents required by the General Order.

**Sewer System Management Plan** - A sewer system management plan is a living document an Enrollee develops and implements to effectively manage its sanitary sewer system(s) in accordance with the General Order.

**Sewage** - Sewage, and its associated wastewater, is untreated or partially treated domestic, municipal, commercial and/or industrial waste (including sewage sludge), and any mixture of these wastes with inflow or infiltration of stormwater or groundwater, conveyed in a sanitary sewer system.

**Spill** - A spill is a discharge of sewage from any portion of a sanitary sewer system due to a sanitary sewer system overflow, operational failure, and/or infrastructure failure. Exfiltration of sewage is not considered to be a spill under this General Order if the exfiltrated sewage remains in the subsurface and does not reach a surface water of the State.

**Waste** - Waste, as defined in Water Code section 13050(d), includes sewage and any and all other waste substances, liquid, solid, gaseous, or radioactive, associated with human habitation, or of human or animal origin, or from any producing, manufacturing, or processing operation, including waste placed within containers of whatever nature prior to, and for purposes of, disposal.

**Wastewater Collection System** -- All pipelines pump stations, and other related facilities, upstream of the headworks of the wastewater treatment plant that convey wastewater from its sources to the wastewater treatment plant.

**Waters of the State** - Waters of the State are surface waters or groundwater within boundaries of the state as defined in Water Code section 13050(e), in which the State and Regional Water Boards have authority to protect beneficial uses. Waters of the State include, but are not limited to, groundwater aquifers, surface waters, saline waters, natural washes and pools, wetlands, sloughs, and estuaries, regardless of flow or whether water exists during dry conditions. Waters of the State include waters of the United States.

**Waters of the United States** (paraphrased from 33 CFR Part 328) – All waters which are used, were used or may be used in interstate or foreign commerce; including interstate wetlands; all other waters such as intrastate lakes, rivers, streams (including intermittent streams), adjacent wetlands, impoundments of water, etc., the use, degradation or destruction of which could affect interstate or foreign commerce; tributaries of waters so identified; and the territorial seas.

## **I EXECUTIVE SUMMARY**

This plan document was initially prepared in compliance with a formal order issued by the State Water Resources Control Board. The order requires every owner and operator of publicly owned sewer systems to develop and implement a system specific Sewer System Management Plan (SSMP). This plan sets forth goals and actions to be followed, and guidelines for various activities involved in managing, operating, maintaining, repairing, replacing, and expanding the sewer system. Section 8 describes actions to follow when responding to a Sewer System Overflow (SSO) occurrence within the community, including reporting obligations. There are chapters that describe legal authorities for managing the system, and ministerial actions required in monitoring, auditing, reporting and communicating with the public and regulators. There are specific requirements for accomplishing public involvement and the reporting and modifying (changing) of the plan.

These later requirements are intended to raise public awareness of the hazards associated with SSO events and to minimize the occurrence of such events. The key elements to the successful implementation of this plan are:

- 1) design and construction of replacement pipelines for any identified capacity and structurally deficient pipelines, as identified in the City's upcoming sewer master plan and
- 2) the continuing periodic CCTV inspection of designated areas within the sewer system to determine further defects that may exist.

These actions in concert with the routine maintenance and operation activities will help the City to limit the risk of SSO events within the community.

Based on a comprehensive audit and overall review of the previous SSMPs, and discussions with the Public Works Department, and a review of all other related documents, the City hereby certifies that all SSMP Goals are on-going and are on-track.

## **II INTRODUCTION**

### **Sewer System Asset Overview**

The City of Hermosa Beach is located 17 miles (11 km) southwest of downtown Los Angeles. It is a coastal city on Santa Monica Bay, bounded by the Pacific Ocean to the west, Manhattan Beach to the north, and Redondo Beach to the south and east. The City serves a population of 19,088 per the California Department of Finance 2024 City/County Population and Housing Estimates. The City's sanitary sewer collection system is managed by the Public Works Department. The collection system consists of about 40 miles of gravity sewer lines ranging in size from 6 to 24 inches in diameter, 881 manholes, with one large sewer lift station and three small lift stations serving beach restrooms. Local wastewater flows discharge into Los Angeles County Sanitation District (CSD) facilities for transportation, treatment and disposal.

The City has four (4) positions budgeted in the sewer maintenance fund. The distribution of City personnel is shown in the organization chart presented in Section 4.7 of this plan. These personnel provide evaluation of proposed and existing sewer facilities, administer the City's sewer service charge and enforcement ordinances, maintain and report facility maintenance activities and administer preventive maintenance and sewer construction programs.

### **Sewer System Management Plan Update Schedule**

- The City of Hermosa Beach's (City) updated plan to be approved and certified in 2024
- The plan is to be monitored and updated no less frequent than every six years
- The plan must be periodically audited for effectiveness, a report compiled and kept on file and such audits must occur no less frequent than every three years
- There are reporting timeframes for both emergency and routine reporting events
- The adoption of and any revision to the plan must be adopted by the City Council at a noticed meeting.
- Copies of the approved plan must be available for public review, and when requested by the State or Local regulatory agencies copies are to be provided, including any audit reports.

### **Regulatory Context**

The State Water Resources Control Board (State Water Board) adopted a new Water Quality Order 2022-0103, on December 6, 2022, which supersedes the previous State Water Board Order 2006-0003-DWQ and amendments thereafter. This requires all public agencies that owns and/or operates one or more sanitary sewer systems: (a) greater than one mile in length (b) one mile or less in length where the State Water Board or a Regional Water Board requires regulatory coverage under this Order to comply with the Statewide General Waste Discharge Requirements (WDR) for Sanitary Sewer Systems. All public agencies must apply for coverage by June 2, 2023, by completing the notice of intent (NOI) and legally responsible official (LRO) forms that the State Water Board distributed. The City previously completed the NOI.

The intent of the WDR is to provide consistent statewide requirements for managing and regulating sanitary sewer systems throughout California. The State Water Board recognized a need to provide this consistent regulatory measure because many of the Regional Water Boards were beginning to implement similar measures inconsistently throughout the State, which was creating confusion in the discharger community. The State Water Board believes that providing a consistent regulatory measure that identifies regulatory expectations and comprehensive sanitary sewer overflow data will ultimately yield better collection system management and performance.

There are three major components to the WDR, including:

- Prohibitions;
- Sewer System Management Plan (SSMP) Elements; and
- Spill Reporting.

While there are many other relevant components and findings within the WDR, the major components identified above represent most of the State Water Board's regulatory expectations for the implementation of the WDR. This regulatory audit is intended to provide an analysis of the current programs and practices within the City that address the above issues. This document will provide recommendations to ensure the development of appropriate SSMP programs and an appropriate time schedule necessary to comply with the WDR.

## Prohibitions

Section 4 of the WDR identifies and prohibits any discharge from a sanitary sewer system that has a potential to discharge directly or indirectly to waters of the State and/or creates a nuisance or condition of pollution as defined in California Water Code (CWC) Section 13050(m). CWC section 13050, subdivision (m), defines nuisance as anything which meets all of the following requirements:

- a) Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
- b) Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
- c) Occurs during, or as a result of, the treatment or disposal of wastes.

Since the State Water Board has not specifically defined SSOs that are subject to this prohibition and criteria for determining whether or not an SSO violates the above prohibition, the State and/or Regional Water Board will consider potential violations on a case-by-case basis.

In general, however, if an SSO results in a discharge to a surface water or drainage channel, the Water Board will consider this a discharge to Waters of the US. Additionally, if an SSO reaches an enclosed storm drainage pipe, and the SSO was not fully contained, captured, and pumped back into the sanitary sewer system, the Water Board will generally assume that the SSO reached water of the US. In both cases the SSO will probably result in a violation of the WDR prohibition.

Determining whether an SSO created a nuisance is even more problematic and subjective. Again, since the State Water Board has not specifically defined SSOs that are subject to the nuisance prohibition and criteria for determining whether or not an SSO is in violation of this prohibition, the State and/or Regional Water Board will consider violations on a case-by-case basis.

In both cases, while reporting SSOs, determining whether or not the SSO violated the prohibition is not up to the reporting Agency. It is the enforcement agency's responsibility to determine compliance with the WDR.

## SSO Reporting

WDR finding number 9 states:

Both uniform SSO reporting, and a centralized statewide electronic database are needed to collect information to allow the State Water Board and Regional Water Quality Control Boards (Regional Water Boards) to effectively analyze the extent of SSOs statewide and their potential impacts on beneficial uses and public health. The monitoring and reporting program required by this Order and the attached Monitoring, Measurement and Program Modifications No. 2022-0103-DWQ, are necessary to assure compliance with these waste discharge requirements (WDRs).

Furthermore, the State Water Board Fact Sheet states:

SSOs can be distinguished between those that impact water quality and/or create a nuisance, and those that are indicators of collection system performance. Additionally, SSO liability is attributed to either private entities (homeowners, businesses, private communities, etc.) or public entities.

Although all types of SSOs are important to track, the reporting time frames and the type of information that need to be conveyed differ. The Reporting Program and Online SSO Database clearly distinguish the type of spill (major or minor) and the type of entity that owns the portion of the collection system that experienced the SSO (public or private entity). The reason to require SSO reporting for SSOs that do not necessarily impact public health or the environment is because these types of SSOs are indicators of collection system performance and management program effectiveness and may serve as a sign of larger and more serious problems that should be addressed. Although these types of spills are important and must be regulated by collection system owners, the information that should be tracked and the time required to get them into the online reporting system is not as stringent.

Obviously, SSOs that are large in nature, affect public health, or affect the environment must be reported as soon as practicable, and information associated with both the spill and efforts to mitigate the spill must be detailed. Since the Online SSO Database is a web-based application requiring computer connection to the internet and is typically not as available as telephone communication would be, the Online Database will not replace emergency notification, which may be required by a Regional Water Board, Office of Emergency Services, or a County Health or Environmental Health Agency.

In order to implement the above vision, the State Water Board has developed a web-based database that will be used to report all SSOs. This online spill reporting system is hosted, controlled, and maintained by the State Water Board. The web address for this site is <http://ciwqs.waterboards.ca.gov>

This online database is maintained on a secure site and is controlled by unique usernames and passwords. Once the City has enrolled into the WDR, and has identified a Legally Responsible Official (LRO), the State Water Board will issue both a username and password to the LRO and notify that individual of this information.

These accounts will allow controlled and secure entry into the SSO Database. Additionally, within thirty (30) days of receiving an account and prior to recording SSOs into the SSO Database, all Enrollees must complete the "Collection System Questionnaire", which collects pertinent information regarding an Enrollee's collection system. The "Collection System Questionnaire" must be updated at least every 12 months.

All reports required by this Order and other information required by the State or Regional Water

Board shall be signed and certified by a person designated, for a municipality, state, federal or other public agency, as either a principal executive officer or ranking elected official, or by a duly authorized representative. For purposes of electronic reporting, an electronic signature and accompanying certification, which is in compliance with the Online SSO database procedures, meet this certification requirement.

All reporting requirements are described within the Monitoring and Reporting Program (MRP) that was adopted by the State Water Board Order, along with the WDR.

California Health and Safety Code section 5411.5, states that:

Any person who, without regard to intent or negligence, causes or permits any untreated wastewater or other waste to be discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State, as soon as that person has knowledge of the discharge, shall immediately notify the local health officer of the discharge. Discharges of untreated or partially treated wastewater to storm drains and drainage channels, whether man-made or natural or concrete-lined, shall be reported as required above.

California Water Code section 13271, also requires any SSO greater than 1,000 gallons that is discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State shall also be reported to the Office of Emergency Services as soon as:

1. That person has knowledge of the discharge,
2. Notification is possible, and
3. Notification can be provided without substantially impeding cleanup or other emergency measures.

### Spill categories as defined by the reissued Order

An SSO is defined by the WDR as any overflow, spill, release, discharge, or diversion of untreated or partially treated wastewater from a sanitary sewer system, including:

**Category 1** – A spill of any volume of sewage from or caused by a sanitary sewer system regulated under the General Order that results in a discharge to:

- A surface water, including a surface water body that contains no flow or volume of water; or
- A drainage conveyance system that discharges to surface waters when the sewage is not fully captured and returned to the sanitary sewer system or disposed of properly.

Any spill volume not recovered from a drainage conveyance system is considered a discharge to surface water, unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility.

A spill from an Enrollee-owned and/or operated lateral that discharges to a surface water is a Category 1 spill; the Enrollee shall report all Category 1 spills per section 3.1 of Attachment E1 (Notification, Monitoring, Reporting and Recordkeeping Requirements) of the General Order.

**Category 2** – A spill of 1,000 gallons or greater, from or caused by a sanitary sewer system regulated under the General Order that does not discharge to a surface water.

A spill of 1,000 gallons or greater that spills out of a lateral and is caused by a failure or blockage



in the sanitary sewer system, is a Category 2 spill.

**Category 3** – A spill of equal to or greater than 50 gallons and less than 1,000 gallons, from or caused by a sanitary sewer system regulated under the General Order that does not discharge to a surface water.

A spill of equal to or greater than 50 gallons and less than 1,000 gallons, that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 3 spill.

**Category 4** – A spill of less than 50 gallons, from or caused by a sanitary sewer system regulated under the General Order that does not discharge to a surface water.

A spill of less than 50 gallons that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 4 spill.

SSOs may cause a public nuisance, particularly when raw wastewater is discharged to areas having high public exposure, such as streets or surface waters used for drinking, fishing, or body-contact recreation. SSOs may pollute surface or ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters.

Agencies in California that own sanitary sewer systems and experience SSOs are required to enter the SSO information into California's Integrated Water Quality System (CIWQS) database—the SWRCB's information management system for regulatory and water quality data reporting. In addition, SWRCB requires that agencies notify the State Office of Emergency Services (OES) within 24 hours of any spill that exceeds 1,000 gallons.

In summary, the WDR is intended to:

- Provide a consistent and unified statewide approach for the reporting and database tracking of SSOs.
- Establish consistent and uniform requirements for SSMP development and implementation.
- Facilitate consistent enforcement of the WDR regulation and violations.

Capacity assurance is at the heart of the WDR. The SWRCB's WDR requires the preparation of SSMPs, while implementation of SSMPs is the responsibility of the nine Regional Water Quality Control Boards (RWQCBs). The SSMP consists of a set of documented plans to address how a wastewater collection system conducts business management, funding, design, operations, maintenance, and emergency response. The System Evaluation, and Capacity Assurance and Capital Improvements element of the SSMP includes evaluation of peak flows, design criteria, and capacity enhancement measures, and a schedule with planned completion dates of capital improvements.

Goals of City's SSMP are to ensure that:

1. The City's sanitary sewer collection system facilities are properly operated, maintained and managed to reduce frequency and severity of sanitary sewer overflows (SSO) and their potential impacts on public health, safety, and on the environment; and,
2. When a SSO occurs, prompt action is taken to identify, contain, remove the cause and then to promptly report the event to appropriate regulatory authorities and that the public is adequately and timely notified; and,
3. All SSO and system deficiencies and remedial actions taken are well documented; and,

4. The City sewer system operators, employees, contractors, responders, or other agents are adequately trained and equipped to address an SSO event; and,
5. The City sewer system is properly designed, constructed and funded to provide sufficient capacity to convey base flows and peak flows while meeting or exceeding applicable regulations, laws and generally acceptable practices relative to sanitary sewer system operations and maintenance.

The SSMP prescribes specific elements be required in the WDR:

1. Sewer System Management Plan Goal and Introduction,
2. Organization,
3. Legal Authority,
4. Operations and Maintenance Program,
5. Design and Performance Provisions,
6. Spill Emergency Response Plan,
7. Sewer Pipe Blockage Control Program,
8. System Evaluation, Capacity Assurance and Capital Improvements,
9. Monitoring, Measurement, and Program Modifications,
10. Internal Audits, and
11. Communication Program.

An internal audit must be conducted at least every three years, and the audit report must be kept on file by the City staff. Successful implementation of an SSMP and compliance with the WDR could result in significant cost-savings to the City and its residents.

In compliance with the new WDR Order, the City filed its application form with the SWRCB on October 30, 2006. As a result, the City received its Username and Password for accessing the California Integrated Water Quality System (CIWQS) database. Within the database reporting program, the City completed its "collection system questionnaire" and will file all subsequent updates and all required SSO reporting.

Additionally, this document has been prepared to meet the objectives contained in the WDR Order. The document is divided into 11 sections, which closely align with the respective provisions contained in the WDR. Every section or subsection of each chapter addresses one of the key elements of the SSMP directive.

This document, plus other existing agency programs referenced herein constitutes the SSMP for the City. By implementing the procedures contained in this SSMP, the occurrence of SSOs should decrease or possibly be avoided throughout the City's sanitary sewer collection system.

## 1. SEWER SYSTEM MANAGEMENT PLAN GOAL AND INTRODUCTION

The goal of the Sewer System Management Plan (Plan) is to provide a plan and schedule to: (1) properly manage, operate, and maintain all parts of the Enrollee's sanitary sewer system(s), (2) reduce and prevent spills, and (3) contain and mitigate spills that do occur.

### 1.1. Overview

This section describes the Sewer System Management Plan (SSMP) goals, which is to provide a documented plan that describes all collection system activities and programs employed by an agency to ensure proper management of all collection system assets.

Implementing an SSMP will ensure proper management, operation, and maintenance of all parts of the sanitary sewer system, ultimately helping to reduce and prevent SSOs, as well as mitigate any SSOs that do occur including meeting all applicable regulatory notification and reporting requirements.

Commitment to continual improvement will also ensure that the SSMP is both a living and sustainable document that is continually updated, revised, and tailored towards the City's needs. The City is required to comply with the "State Water Resources Control Board (SWRCB), Order No. 2022-0103 DWQ" (Order) on General Waste Discharge Requirements for publicly owned sewage collection agencies having more than one mile of collection pipelines.

### 1.2. Purpose

This element describes the City's stated goals of the SSMP and is intended to clarify the City's desired level of service that it is providing to its customers. Typically, high-level statements regarding the overall management of a system include a vision and mission statement, as well as a statement of short and long-term goals.

**THE MISSION STATEMENT** is the first step in the planning process to identify overall functions or missions of the organization. This broad statement of purpose is commonly known as the mission statement.

**THE VISION STATEMENT** is a clarifying phrase that states where the City is heading. It helps set the course of future decisions and direction.

**A STATEMENT OF GOALS** should include both short- and long-term commitments that will ultimately measure progress toward achieving and accomplishing both the stated Vision and Mission. Goals should be developed specific to the City's desired level of service. Careful thought and planning should occur when developing the Goals, because these are measurable outcomes that can be touted if accomplished or criticized if not accomplished. The development of reasonable Goals is often a balancing act between budget and performance.

Creating Goals that meet this balance is often difficult and always specific to individual communities.

### 1.3. Minimum Requirements

Goals that the City must commit to and are identified in the WDR include:

- a) Create/develop a management, operation and maintenance plan and schedule to reduce preventable SSOs.
- b) Respond to and mitigate all SSOs discharging from the City's collection system.
- c) Ensure adequate system capacity for the current and future needs of the City's service area.
- d) Establish measurable performance indicators and manage assets at lowest life cycle costs.
- e) Provide accurate reporting of all SSOs as described by the Order.
- f) Properly fund, manage, operate, and maintain, with adequately trained staff and/or contractors.
- g) All parties involved, shall possess adequate knowledge, skills, and abilities necessary to ensure the proper management, operation, and maintenance of all parts of the sewage collection system owned and/or operated by the City of Hermosa Beach.

The State Water Board also expects both a plan and schedule to be created by the City to ensure that an SSMP is developed in accordance with the time schedule identified in the WDR and will facilitate proper sanitary sewer system management, operation, and maintenance.

The goals of this SSMP are:

- a) Collection system facilities are properly managed, operated, and maintained to eliminate preventable sanitary system overflows (SSOs);
- b) Response measures are in place and that all feasible steps are taken to mitigate the impacts of SSOs to public health and the environment when they occur;
- c) Reporting procedures are in place to notify the appropriate regulatory and health authorities of SSOs within the required time frames; and
- d) SSO events, mitigation measures, and corrective actions are documented;
- e) City sewer system operators, employees, contractors, responders, or other agents are adequately trained and equipped to address an SSO event; and,
- f) City sewer system is properly designed, constructed and funded to provide sufficient capacity to convey base flows and peak flows while meeting or exceeding applicable regulations, laws and generally acceptable practices relative to sanitary sewer system operations and maintenance.

The actions to be taken under the SSMP are:

- a) Conduct planned and scheduled maintenance and training programs to minimize risk and the occurrence of SSOs, in support of the SSMP goals including cleaning and CCTV inspection of all sewer lines. This includes cleaning all sewer lines periodically, all Hot Spots monthly and CCTV inspection of the entire sewer system every seven (7) years.
- b) Provide an update to the SSO Emergency Response Plan.
- c) When SSOs do occur, respond to the reported site in a timely manner and undertake feasible remedial actions to contain overflow impacts, including stopping the flow from reaching the storm drain or water course, if possible; and,
- d) Stop the overflow as soon as possible and limit public access into the overflow area to prevent public contact with any wastewater contamination; and,
- e) Completely recover the overflow and return it to the sewer system, and clean up the contaminated area; and,
- f) Gather and compile all pertinent information regarding the overflow event, investigate as necessary to determine probable cause, document findings, report to the appropriate regulatory agencies in a timely manner, and file the completed report; and,
- g) Condition all development and capital projects to evaluate, design and construct sewer facilities to the City approved standards and criteria.

## 2. ORGANIZATION

The Plan must identify organizational staffing responsible and integral for implementing the local Sewer System Management Plan through an organization chart or similar narrative documentation that includes:

- The name of the Legally Responsible Official as required in section 5.1 (Designation of a Legally Responsible Official) of this General Order;
- The position titles, telephone numbers, and email addresses for management, administrative, and maintenance positions responsible for implementing specific Sewer System Management Plan elements;
- Organizational lines of authority; and
- Chain of communication for reporting spills from receipt of complaint or other information, including the person responsible for reporting spills to the State and Regional Water Boards and other agencies, as applicable. (For example, county health officer, county Environmental Health Agency, and State Office of Emergency Services (OES)).

### 2.1. Overview

This element of the WDR describes both the organizational structure of the City as well as activities, duties, and responsibilities for individuals and positions associated with the sanitary sewer system. This section should include typical positions and their associated activities, duties, and responsibilities.

### 2.2. Purpose

Clearly identifying specific roles and responsibilities within an organization will ensure a clear understanding of duties that must be performed, as well as training and skill sets that are associated with specific jobs throughout the agency.

### 2.3. Minimum Requirements

- The name of the responsible or authorized representative as described in Section J of this Order.
- The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and
- The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (OES)).

## 2.4. Management

The City was incorporated on January 14, 1907, encompasses approximately 3.9 square miles in area, and serves a population of 19,088 per the California Department of Finance 2024 City/County Population and Housing Estimates. The City's sanitary sewer collection system is managed by the City's Public Works Department. The collection system consists of about 40 miles of gravity sewer lines ranging in size from 6 to 24 inches in diameter, with 881 manholes, and four pump/lift stations. Approximately 90 percent of the collection system's flows come from residential sources, and the remaining 10 percent are non-residential. Local wastewater flows discharge into Los Angeles County Sanitation District's (CSD) facilities for transportation, treatment and disposal. The CSD sewerage collection and transmission system is routed northerly in the eastern portion of the City, via Herondo Street, Monterey Boulevard, Bayview Drive, Manhattan Avenue, Palm Drive and Hermosa Avenue.

City sewers are primarily constructed of vitrified clay pipe or non-reinforced concrete pipe. Some recent rehabilitation projects have converted portions of the system to PVC pipe and ABS pipe.

Distribution of the City's personnel is depicted in the organization chart presented in FIGURE 2-1 of this plan. These personnel provide evaluation of proposed and existing sewer facilities, administer the City's sewer service charge and enforcement ordinances, maintain and report facility maintenance activities and administer preventive maintenance and sewer construction programs.

## 2.5. Authorized Representative

The City Manager is the authorized legally responsible official (LRO) who is responsible for the execution of compliance actions required under the WDR. This includes, but is not limited to, signing and certification of all reports and correspondence as required under this order.

## 2.6. City's Responsibilities

The City is required to apply for coverage under the WDR for facilities it owns. The City is required to prepare a comprehensive SSMP, and if it has not yet fully adopted applicable codes, local ordinances or resolutions governing the performance of items stipulated in the WDR, it will promptly undertake actions to adopt the legal means to do so.

The City Public Works Department (PWD) plays significant roles, jointly and separately, towards attaining the goals of the WDR. The degree of these collaborative efforts will vary from department to department depending on the degree of SSO related services the PWD is providing under various agreements.

## 2.7. Organization Chart and Responsibilities

The organization chart showing the structure and relationships of the City's administrative, management and field positions relative to sewer operations and maintenance (O&M) is presented below and the descriptions of responsibilities and support are presented in Sections 2.7.1 and 2.7.2.

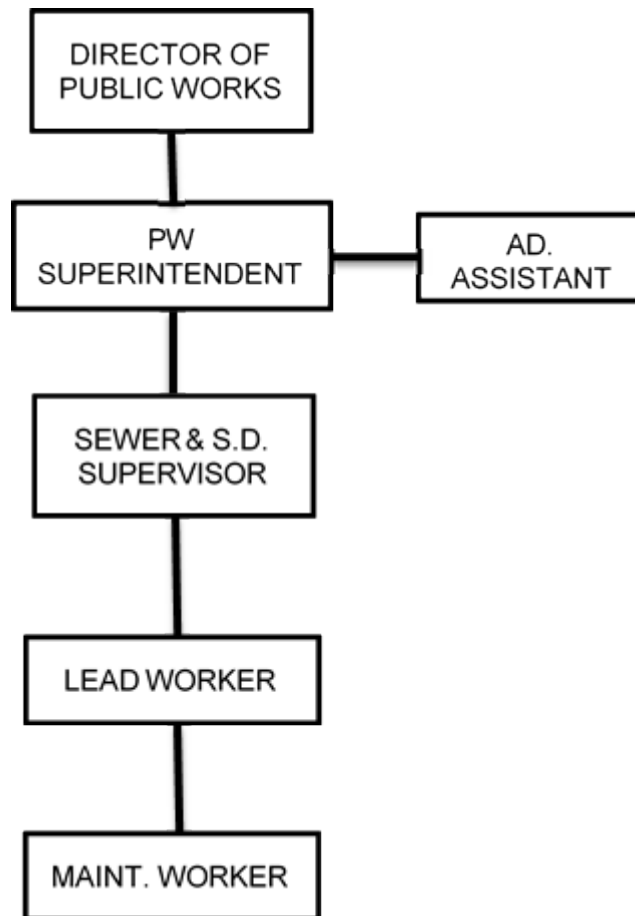


**Figure 2.1 Organization Chart for the City's Sewer System Management Plan**

### **2.7.1 Description of Responsibilities**

The description of responsibilities or roles of each position especially as related to SSOs are as follows:

- City Council - Responsible for establishing new and amending existing ordinances and policies governing the municipal operations, and the operations of the City's sanitary sewer system including the approving of all Sewer Operations and Maintenance (SO&M) contracts and agreements within the community's interest.
- City Manager – Responsible for the overall management and application of all legal and policy directives that relate to the City's activities, including the operation and maintenance of the City's sanitary sewer system. The City's Environmental Programs Manager is the City Manager's designated individual providing these functions.
- Director of Public Works – Directs the accomplishment of statutory and policy criteria, within the scope of the City Council's policy and legal requirements. Directs its execution, and evaluates work accomplished within his/her areas of responsibility, including the SO&M program. Also directs the planning, budgeting, design, and construction of new and rehabilitation of existing sewage collection systems and assists with claims and litigations against the City relative to public infrastructure.



- Public Works Superintendent - Monitors SSMP plans and procedures, facilitates field operations, assesses SSMP plans and procedures, solicits and provides feedback on the effectiveness of plans.
- Sewer & Storm Drain Supervisor - Responsible for assigning work and oversight of the sewer maintenance workers performing sewer collection system operation and maintenance and repairs. Reports to the Superintendent.
- Maintenance Workers (Field Crews) - Maintenance workers are responsible for performing daily maintenance activities of the sewer collection system including responding to SSOs, sewer cleaning, repairs and other activities as needed. They report to the Sewer & SD Supervisor.

### **2.7.2 Key Support Units**

Other Divisions or Departments within the City, and specific contracted services, are currently and will continue to be responsible for carrying out some of the compliance actions called for by the WDR for the City. The key support units and their responsibilities are described below with contact information in Table 2.7.4:

- Office Assistant - Perform assigned clerical work including but not limited to receive complaints and/or service requests.
- Finance Department – Responsible for receiving and recording sewage related fees and charges, tracking expenses attributable to the sewer system, evaluating the relationship of revenues vs expenses for the sewer system, facilitating and tracking any emergency related expenses incurred and participating in the annual audit of the sewer system operations and maintenance functions.
- Community Development - Building and Safety Division - Responsible for reviewing various building permit applications, their relationship to public easements and facilities, and issuing permits for sewer connections and laterals. Enforcement of the Plumbing Codes involving proper connection and discharge into the public sewer system and the maintenance of sewer laterals between the structure served and the public sewer collection main. Responsible for the enforcement of the Health and Safety Codes regarding waste disposal such as the FOG program, point source control inspection of industrial and commercial waste and grease generating facilities, and investigation of cases of illicit discharge of chemicals, debris, etc. into the public sewer system.
- Public Works - Engineering Division - Responsible for preparing plans and specifications for sewer construction and rehabilitation projects, and the administration of contracts for accomplishing such projects and emergency sewer repair projects. Also responsible for subdivision or development project plan checks to ensure compliance with the City's standards for construction of new sewer collection systems. Plan checks sewer capacity studies to size proposed sewer lines and sets requirements to ensure adequate capacity in existing systems. Prepares easement documents or identifies and procures access rights for public sewer facilities located within private properties.
- Public Works Department - Responsible for reviewing and approving permit applications for industrial waste discharge and also perform FOG related inspections.

- Fire Department – Responsible for assisting with protecting the public during an SSO event that expands into high use public travel ways and/or those that reach storm drains or water courses and spread the public risk to health and safety impacts.
- Police Department - Responsible for operating the Emergency Operation Center for the entire City including handling after-hours service calls reporting SSOs, and pump station malfunction calls and forwarding those reports to the DPW.

### **2.7.3 Chain of Communication for SSO Reporting**

Once a City Public Works staff receives a complaint or information regarding a potential SSO event during working hours, that employee will immediately notify the Superintendent, and field crews will be dispatched to the location and implement the Sanitary Sewer Overflow Response Plan, as shown in the flow chart below.

Appropriate regulatory agencies will also be notified accordingly. The City contact directory for communicating with both internal and external parties involved is noted in Section 2.7.4.

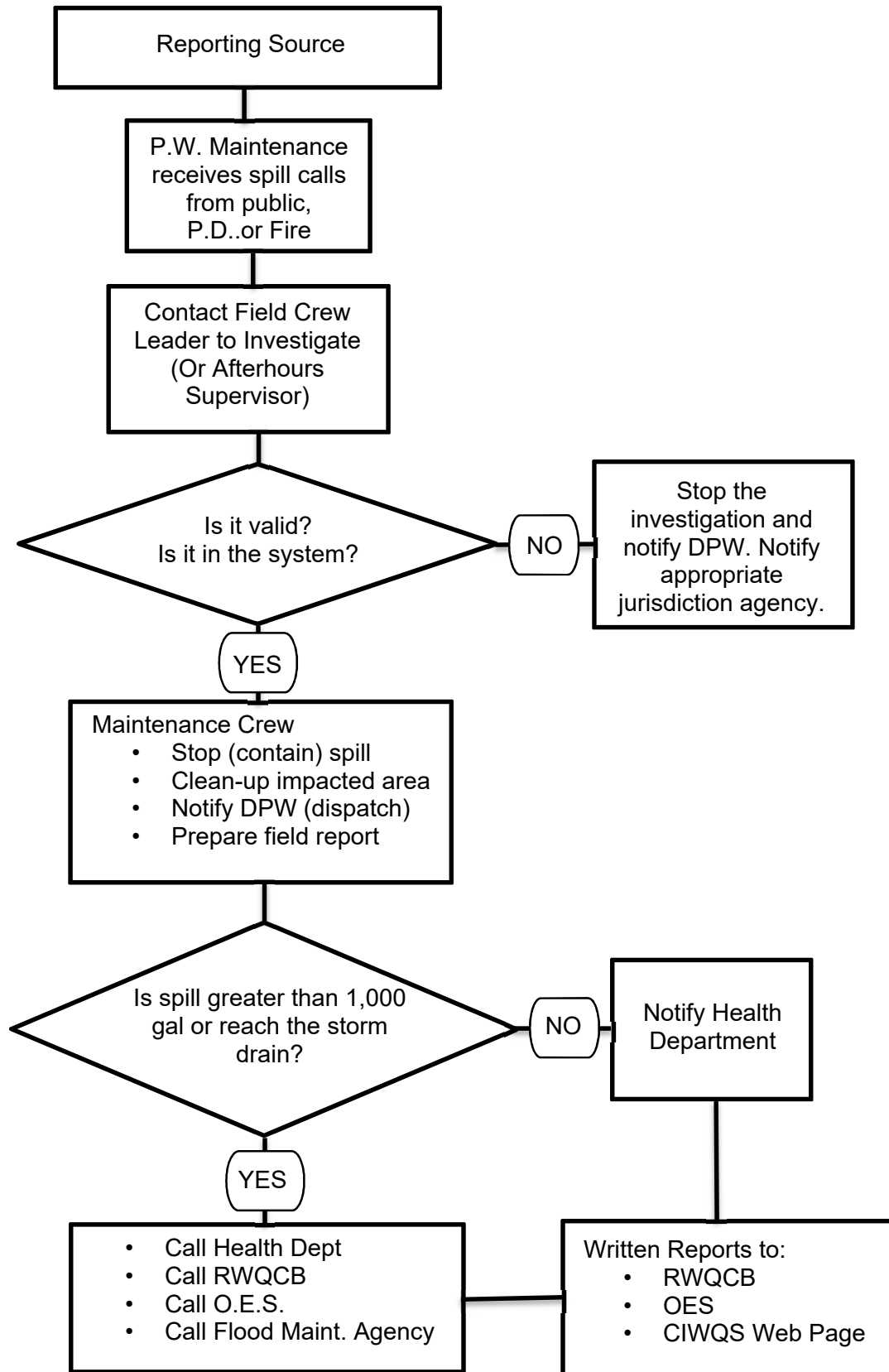


**Figure 2.2 Spill Reporting Procedures Flow Chart**

**2.7.4 City's Contact Directory for Spill Responding and Reporting**

| <b>Responsible Party</b>                            | <b>Name</b>                                                                                        | <b>Phone</b> | <b>Afterhours Phone</b> |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------|-------------------------|
| Environmental Programs Manager                      | Douglas Krauss - <a href="mailto:dkrauss@hermosabeach.gov">dkrauss@hermosabeach.gov</a>            | 310-318-0216 |                         |
| Director of Public Works/City Engineer              | Joe SanClemente - <a href="mailto:jsanclemente@hermosabeach.gov">jsanclemente@hermosabeach.gov</a> | 310-318-0214 |                         |
| Building Official                                   | Guillermo Hobelman - <a href="mailto:ghobelman@hermosabeach.gov">ghobelman@hermosabeach.gov</a>    | 310-318-0219 |                         |
| Public Works Superintendent (Afterhours Supervisor) | John Cordova – <a href="mailto:jcordova@hermosabeach.gov">jcordova@hermosabeach.gov</a>            | 310-318-0214 | 310-629-1954            |
| H.B. Police                                         | Watch Commander                                                                                    | 310-524-2750 | 911 Emergency           |
| Fire Department                                     | Battalion Commander                                                                                | 310-376-2479 |                         |
| LA County Health Dept                               |                                                                                                    | 562-345-6830 | 323-667-1843            |
| LA County Flood                                     |                                                                                                    | 626-445-7630 | 626-458-4357            |
| RWQCB Region 4                                      |                                                                                                    | 213-576-6725 | 213-305-2253            |
| State OES                                           |                                                                                                    | 800-852-7550 | 800-852-7550            |

### 3. LEGAL AUTHORITY

The Plan must include copies or an electronic link to the Enrollee's current sewer system use ordinances, service agreements and/or other legally binding procedures to demonstrate the Enrollee possesses the necessary legal authority to:

- Prevent illicit discharges into its sanitary sewer system from inflow and infiltration (I&I); unauthorized stormwater; chemical dumping; unauthorized debris; roots; fats, oils, and grease; and trash, including rags and other debris that may cause blockages;
- Collaborate with storm sewer agencies to coordinate emergency spill responses, ensure access to storm sewer systems during spill events, and prevent unintentional cross connections of sanitary sewer infrastructure to storm sewer infrastructure;
- Require that sewer system components and connections be properly designed and constructed;
- Ensure access for maintenance, inspection, and/or repairs for portions of the service lateral owned and/or operated by the Enrollee;
- Enforce any violation of its sewer ordinances, service agreements, or other legally binding procedures; and
- Obtain easement accessibility agreements for locations requiring sewer system operations and maintenance, as applicable.

#### 3.1. Overview

This chapter is intended to identify and describe the necessary legal authority that an agency must have in order to implement SSMP plans, programs, and procedures. Regulatory mechanisms that are used by cities quite often include City Ordinances, Codes, and Resolutions, State and Federal Laws, Licensing and Permitting Processes, Memorandum of Agreements, Contractual Agreements, as well as other programmatic mechanisms necessary to carry out asset management activities.

#### 3.2. Purpose

The basis of all authority to manage, operate, and maintain agency's infrastructure is derived from documents adopted by its elected board or council. In order to ensure that the City has the proper legal authority established to implement and enforce all of the programs required by the WDR, the City must first establish necessary legal authority to do so.

#### 3.3. Minimum Requirements

The SSMP must include the legal authority, through sewer use ordinances, service agreements, or other legally binding procedures, to:

- Prevent illicit discharges into its sanitary sewer system from inflow and infiltration (I&I); unauthorized stormwater; chemical dumping; unauthorized debris; roots; fats, oils, and

grease; and trash, including rags and other debris that may cause blockages;

- Collaborate with storm sewer agencies to coordinate emergency spill responses, ensure access to storm sewer systems during spill events, and prevent unintentional cross connections of sanitary sewer infrastructure to storm sewer infrastructure;
- Require that sewer system components and connections be properly designed and constructed;
- Ensure access for maintenance, inspection, and/or repairs for portions of the service lateral owned and/or operated by the Enrollee;
- Enforce any violation of its sewer ordinances, service agreements, or other legally binding procedures; and
- Obtain easement accessibility agreements for locations requiring sewer system operations and maintenance, as applicable.

### 3.4. Statutory Authority

Pursuant to the California Government Code, Sections 37100 and 54350, the City Council, as the local legislative body, may by ordinances and resolutions make and enforce all rules and regulations necessary for the administration of the City's Sewer O&M plan. Such actions include, but are not limited to, the design, construction, cleaning, repair, reconstruction, rehabilitation, replacement, operation, maintenance, discharges into, blockage of, access to, and violation enforcement pertaining to the sanitary sewers within the City's System.

Consistent with the law, several ordinances have been established by the City Council to govern all aspects of the Sewer O&M plan. The legal authorities for the specific areas stipulated in the WDR are discussed below.

The City of Hermosa Beach Municipal Code (HBMC) Section 15.16 entitled "Plumbing Code" has expressly adopted by reference, the 2016 edition of the State of California Plumbing Code (Title 24, Part 5 of the California Code of Regulations) as the plumbing code of the City of Hermosa Beach.

#### **3.4.1 Authority to prohibit illicit discharges into the sewer system**

HBMC Section 8.36.030 prohibits unauthorized discharge of surface, drainage, or storm waters, the dumping or deposit of offensive or damaging substances such as chemicals, debris, garbage, solid matter, grease, oils, tars, etc. which may clog, obstruct, or otherwise interfere with the effective use of the sewer system. Similar restrictions are contained in the Plumbing Code, Chapters 7, 10, and 11.

#### **3.4.2 Authority to require sewers and connections be properly designed and constructed**

Los Angeles County Code (LACC) Sections 20.32.330, 340, 350, 580, 590, 600, 610, 620 and 630, require proper design and construction of new and rehabilitation work in the sanitary sewer system within the City of Hermosa Beach. Additionally, the City has a requirement that all new sewer construction must be cleaned and CCTV'd before being accepted by the City.

### **3.4.3 Authority to ensure access for maintenance, inspection, or repairs**

LACC Sections 20.24.090 and 20.24.140, authorizes the Public Works Director the right to access to the sanitary sewer system for maintenance, repair and inspection within the City.

LACC Section 20.24.080 of Title 20 requires the owner of property served by a house lateral, septic tank outlet, an industrial connection sewer, and appurtenances thereto to be responsible for its maintenance in a safe and sanitary manner.

### **3.4.4 Authority limiting discharge of FOG and other debris that may cause blockage**

Chapter 10 of the Plumbing Code provides the Building Official (or other Authorized Authority) with legal authority to require installation of interceptors (clarifiers) where waste flow conditions necessitate the proper handling of the liquid waste stream flow to protect the sewer system and the public (commonly at food service establishments, processing facilities, industrial facilities, etc., that generate grease, oil, grit, acids, alkaline or flammable wastes). This authority would apply at any facility that generates FOG in an amount that will damage or otherwise increase the maintenance costs of the wastewater collection system. See Section 5.4.1 above for related prohibitions on discharges to the wastewater collection system

### **3.4.5 Legal Authority to Enforce any Violation of Sewer Ordinances**

LACC Section 20.24.100 provides authority of the enforcement measures that can be taken by the Public Works Director.

### **3.4.6 Legal Authority to Fund the operations & maintenance of the sewer system**

HBMC Section 13.12 "Sewer Maintenance Fund" provides the authority to deposit and transfer monies, sets the base service charge, and authorizes the City Council to adjust rates for the operation, maintenance, and improvement of the sanitary sewer system.

## 4. OPERATION AND MAINTENANCE PROGRAM

The Plan must include the items listed below that are appropriate and applicable to the Enrollee's system.

### 4.1. Updated Map of Sanitary Sewer System

An up-to-date map(s) of the sanitary sewer system, and procedures for maintaining and providing State and Regional Water Board staff access to the map(s). The map(s) must show gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities within the sewer system service area boundaries.

### 4.2. Preventive Operation and Maintenance Activities

A scheduling system and a data collection system for preventive operation and maintenance activities conducted by staff and contractors. The scheduling system must include:

- Inspection and maintenance activities;
- Higher-frequency inspections and maintenance of known problem areas, including areas with tree root problems;
- Regular visual and closed-circuit television (CCTV) inspections of manholes and sewer pipes.

The data collection system must document data from system inspection and maintenance activities, including system areas/components prone to root-intrusion potentially resulting in system backup and/or failure.

### 4.3 Training

In-house and external training provided on a regular basis for sanitary sewer system operations and maintenance staff and contractors. The training must cover:

- The requirements of this General Order;
- The Enrollee's Spill Emergency Response Plan procedures and practice drills;
- Skilled estimation of spill volume for field operators; and
- Electronic CIWQS reporting procedures for staff submitting data.

### 4.4. Equipment Inventory

An inventory of sewer system equipment, including the identification of critical replacement and spare parts.

#### 4.1. Overview

This section of the SSMP describes how the City will operate and maintain the sanitary sewer system within its jurisdiction. It will involve the development and implementation of several major programs and activities including the production of maps, maintenance and cleaning



schedules, and a comprehensive rehabilitation and replacement plan.

#### 4.2. Purpose

Thorough assessment of the present condition of the sanitary sewer system, deficiencies and defects within the system can be identified so that these issues can be targeted and prioritized for rehabilitation. This program of preventative maintenance will help to ensure that costly catastrophic system failures are preempted and will serve to reduce the amount of spills to be reported within the City.

#### 4.3. Minimum Requirements

At a minimum, each enrollee must:

- a) Create and maintain an up-to-date map of the sanitary sewer system within an Enrollee's jurisdiction;
- b) Develop and implement a Preventative Maintenance program that describes preventative operation and maintenance activities and a system to document scheduled and conducted activities;
- c) Provide regular training for staff and contractors
- d) Provide equipment and replacement part inventories.

#### 4.4. Personnel

The City has a Sewer Maintenance Division consisting of four full time employees who are responsible for maintaining the sewer system. Their responsibilities include cleaning the system on a regular basis, clearing and cleaning hot spots, and responding to sanitary sewer overflows as well as calls from residents.

#### 4.5. Vehicles and Equipment

The Sewer Maintenance Division performs day to day operations and maintenance activities using assigned vehicles and equipment. The equipment includes, but is not limited to:

- Ford F250 with Crane
- (2) Portable Sewer Pumps – 200 GPM capacity
- Ford F450 Dump Truck
- Sewer Jetter
- Volvo L90G Wheel Loader

#### 4.6. Preventive Maintenance Program

The City has developed a Preventative Maintenance program including cleaning of all sewer lines periodically. Sewers are typically cleaned by hydro-jetting. City will also be implementing a comprehensive CCTV program to inspect all its sewer lines over a seven (7) year cycle.

The following is a summary of the key preventive maintenance activities and where applicable, frequencies for these services have been included:

##### **4.6.1 Sewer O&M Mapping System**

The City maintains “as-built” plans of the sewer facilities. Data on these plans, such as location, alignment, pipe material, size, etc. are stored in the drawing file system at City Hall. Overall sewer system information (generated in GIS) has been printed to map sheets.

These maps have been distributed to the City's PWD and its street and sewer field crew, for reference, work scheduling, for responding to emergencies and to other assisting agencies as needed. Periodic updates of these maps are scheduled and requested by the PWD when it is necessary to reflect changes in the system. A current copy of the City's GIS Map showing the sewer service area boundary, which is the same as the City limits will be filed on CIWQS per the new General Order requirement prior to that deadline.

#### **4.6.2 Sewer Line, Manhole and Pump Station Inspection**

On an as-needed basis, sewer lines can be mirrored to assess a potential problem. However, a more thorough inspection using CCTV methods was completed in 2017 and will be scheduled to be accomplished over a seven-year cycle.

Today's CCTV technology and tools digitize analog video output from the inspection camera on the fly while being recorded and displayed on a computer monitor used by the inspecting camera crew. While the video is being captured, a crew member views and logs events such as defects and observations using standard Pipeline Assessment and Certification Program (PACP) event codes. The digital video inspections files are transferred to an external hard drive and/or DVD disks for storage and subsequent reference use.

The inspection of manholes, interior and lid area, can be performed on a scheduled cycle coordinated with the pipe inspections to identify any structural defects, sewage flow condition, presence of vermin or rodents, deleterious industrial waste, odors and any signs of unusual settlement around the manholes and along joining sewer alignments.

#### **4.6.3 Drop Manholes, Gas Trap Manholes and Siphons**

Where these facilities exist, they are inspected and cleared of stoppages and flow restrictions on variable frequencies based on prior inspection records, but no less frequent than monthly.

#### **4.6.4 Sewer Line Cleaning**

Sewer lines are typically cleaned by hydro jet or mechanical root cutting (rodding). The frequency of cleaning and inspection is based on inspection records and/or call-outs on reported complaints, but system cleaning is accomplished on a 1-year cycle. Sewer lines known to accumulate FOG, garbage grinds or other grit or have root intrusions are labeled maintenance "Hot Spots" and are put on a quarterly or monthly cleaning schedule. Pipe segments prone to root growth are periodically cleared using a chemical herbicide or root cutter. Those prone to accumulate FOG are periodically cleaned using caustics, surfactants, enzymes, microbes or high-pressure jetting.

#### **4.6.5 Vermin and Rodent Control**

Sewers infested by insects are chemically treated. Those infested by rodents are baited.

#### **4.6.6 Work Scheduling and Documentation**

Work orders are generated and tracked using a Computerized Maintenance Management System (CMMS). Maintenance activities (by City or contractor) are recorded in the CMMS and are kept on City's servers as well as at the City Yard located at 4244 Santa Ana Street.

#### **4.6.7 Operating Revenues**

Key to supporting a sound preventative maintenance program are the receipt of funds

sufficient to support scheduled maintenance activities as described above. The City is utilizing revenues generated within the City service area based on current sewer service charge rates and total number of sewage units. The City analyzes sewer rates on a 5-year cycle and is scheduled to be updated in FY 2026/27.

#### **4.7. Rehabilitation and Replacement Plan**

Sewer facilities assessment and rehabilitation are an integral part of the City's SO&M program. A summary of recent years background of city capital improvement activities, a plan to identify and prioritize system deficiencies (condition assessment), and the programming of short-term and long-term rehabilitation projects and related funding development for those capital improvement projects are discussed below.

##### **4.7.1 Identification and Prioritization of System Deficiencies**

Section 6 of the August 2017 update of the City of Hermosa Beach Sewer Master Plan identifies priority projects as part of a year by year CIP plan based on urgency, geographic location, and combined cost.

##### **4.7.2 Short and Long Term Rehabilitation Action Plans**

HBMC Section 13.12 authorizes the collection of fees for operations, maintenance, and for capital improvements, including rehabilitation and replacement, to the sanitary sewer system.

As previously described, the programmed CCTV inspection and evaluation activity is a key factor in the scheduling of any rehabilitation project. Those sewer segments previously inspected and evaluated and have been designed, scheduled for corrective action and construction completed as funding is made available in the budget to perform the work.

In addition, as deteriorated lines are discovered during preventive maintenance activities, these locations are either immediately repaired by force account, use of emergency contractors or added into the list of future CIP projects

The City retained Psomas to review CCTV videos and logs and develop improvement recommendations for the highest priority facilities included in the 2017 Sewer Master Plan. The recommendations included various methods of replacement, rehabilitation, and repair. There were two design projects with two phases each, including one with design completed in 2019 and one completed in 2023. The improvements included pipeline removal and replacements, point repairs, CIPP lining, and segment liners. Various manholes were also replaced, lined, and/or maintenance performed such as bench and channel repairs. A graphical representation of these improvements is included on Figure 4.1. These rehabilitation, repair and replacement projects are also summarized in Table 4-1. A tabular summary of these projects is included in Table 4.1 with a cost summary in Table 4-2. As shown from Table 4-2, the City has expended over \$5.2 million on sewer replacement and rehabilitation over the past seven years for an average annual expenditure of almost \$750,000, excluding the cost of the CCTV work and annual cleaning program.



LEGEND

- REMOVE AND REPLACE
- CIPP LINER
- NEW MANHOLE
- MANHOLE LINER
- MANHOLE OPERATION AND MAINTENANCE (O&M) REHAB
- MANHOLE LINER AND O&M REHAB
- POINT REPAIR
- SEGMENT LINER

| SEWER MAIN REHABILITATION AND REPAIR SCHEDULE |                  |                         |          |
|-----------------------------------------------|------------------|-------------------------|----------|
| REPAIR TYPE                                   | DESIGN COMPLETED | QUANTITY                | LENGTH   |
| REMOVE AND REPLACE                            | 2018             | 7 SEGMENTS              | 1,722 LF |
|                                               | 2023             | 20 SEGMENTS             | 4,792 LF |
| CIPP LINER                                    | 2018             | 29 SEGMENTS             | 8,016 LF |
|                                               | 2023             | 28 SEGMENTS             | 7,983 LF |
| ROOT REMOVAL                                  | 2018             | 3 SEGMENTS              | 1,039 LF |
|                                               | 2023             | 0 SEGMENTS              | 0 LF     |
| POINT REPAIR                                  | 2018             | 16 SEGMENTS, 27 REPAIRS | 128 LF   |
|                                               | 2023             | 4 SEGMENTS, 6 REPAIRS   | 115 LF   |
| SEGMENT LINER                                 | 2018             | 2 SEGMENTS, 2 REHABS    | 171 LF   |
|                                               | 2023             | 0 SEGMENTS              | 0 LF     |

| SEWER MANHOLE REHABILITATION AND REPAIR SCHEDULE |                  |          |
|--------------------------------------------------|------------------|----------|
| REPAIR TYPE                                      | DESIGN COMPLETED | QUANTITY |
| NEW MANHOLE                                      | 2018             | 27 EA    |
|                                                  | 2023             | 30 EA    |
| FULL DEPTH MANHOLE LINER                         | 2018             | 9 EA     |
|                                                  | 2023             | 7 EA     |
| MANHOLE O&M                                      | 2018             | 16 EA    |
|                                                  | 2023             | 50 EA    |
| FULL DEPTH MANHOLE LINER WITH O&M                | 2018             | 7 EA     |
|                                                  | 2023             | 7 EA     |

NOTE:  
1. OPERATION AND MAINTENANCE (O&M) REPAIRS FOR SEWER MANHOLES MAY INCLUDE RECONSTRUCTING BENCH & CHANNEL, REPLACE FRAME & COVER, RAISE FRAME & COVER, AND/OR RE-MORTAR OF MANHOLE CHIMNEY



0 250 500  
SCALE: 1" = 250'

EXHIBIT MAP A - SOUTH HALF OF HERMOSA BEACH

**PSOMAS**  
5 HUTTON CENTRE DRIVE  
SUITE 300  
SANTA ANA, CA 92707

**CITY OF HERMOSA BEACH  
SEWER REHABILITATION/REPAIR  
2018 & 2023 DESIGN PROJECTS**

JOB NO. 2HER030504

DATE: 7-22-2024

**FIGURE  
4.1**

1 OF 2





# LEGEND

- REMOVE AND REPLACE
- CIPP LINER
- ROOT REMOVAL
- NEW MANHOLE
- MANHOLE LINER
- MANHOLE OPERATION AND MAINTENANCE (O&M) REHAB
- MANHOLE LINER AND O&M REHAB
- POINT REPAIR
- SEGMENT LINER

NOTE:  
1. OPERATION AND MAINTENANCE (O&M) REPAIRS FOR SEWER MANHOLES MAY INCLUDE RECONSTRUCTING BENCH & CHANNEL, REPLACE FRAME & COVER, RAISE FRAME & COVER, AND/OR RE-MORTAR OF MANHOLE CHIMNEY

MATCH LINE – SEE EXHIBIT MAP A

EXHIBIT MAP B - NORTH HALF OF HERMOSA BEACH

**PSOMAS**  
5 HUTTON CENTRE DRIVE  
SUITE 300  
SANTA ANA, CA 92707

**CITY OF HERMOSA BEACH**  
**SEWER REHABILITATION/REPAIR**  
**2018 & 2023 DESIGN PROJECTS**

JOB NO. 2HER030504

DATE: 7-22-2024

**FIGURE**  
**4.1**

2 OF 2



**Table 4-1 Sewer Rehab Project Quantities**

| SEWER REHAB PROJECT QUANTITIES |                    |                          |             |                      |                           |                      |                 |                             |                   |                    |        |
|--------------------------------|--------------------|--------------------------|-------------|----------------------|---------------------------|----------------------|-----------------|-----------------------------|-------------------|--------------------|--------|
| PROJECT NAME                   | YEAR DESIGN COMPLT | PIPE REPAIR/REHAB        |             |                      |                           |                      | MH REPAIR/REHAB |                             |                   |                    |        |
|                                |                    | CIPP LINING (# segments) | LENGTH (LF) | SEGMENT LINER (#/LF) | REMOVE AND REPLACE (#/LF) | POINT REPAIRS (#/LF) | MH LINERS       | MH RECONSTR BENCH & CHANNEL | MH CHIMNEY REPAIR | MH FRAME AND COVER | NEW MH |
| CIP-416 Phase 1                | 2019               | 2                        | 870         | 1/8                  | 0/0                       | 0/0                  | 0               | 0                           | 0                 | 0                  | 0      |
| CIP-416 Phase 2                | 2019               | 27                       | 7,146       | 2/163                | 7/1,722                   | 27/128               | 16              | 14                          | 3                 | 6                  | 28     |
| CIP-421 Phase 1                | 2023               | 29                       | 8,089       | 0/0                  | 0/0                       | 7/30                 | 0               | 0                           | 0                 | 0                  | 0      |
| CIP-421 Phase 2                | 2023               | 0                        | 0           | 0/0                  | 20/4,792                  | 7/77                 | 14              | 19                          |                   | 50                 | 25     |
| 3rd Court*                     | 2023               | 0                        | 0           | 0/0                  | 1/111                     | 0/0                  | 0               | 0                           | 0                 | 0                  | 2      |
| Clark Field*                   |                    | 0                        | 0           | 0/0                  | 0/0                       | 2/8                  | 0               | 0                           | 0                 | 0                  | 0      |

\*Not Constructed Yet

**Table 4-2 Sewer Rehab Project Costs**

| SEWER REHAB PROJECTS       |                   |             |                   |                                        |                         |                    |
|----------------------------|-------------------|-------------|-------------------|----------------------------------------|-------------------------|--------------------|
| PROJECT NAME               | CONSTRUCTION YEAR | Design Cost | Construction Cost | Bid & Construction Phase Eng. Services | Construction Inspection | Total Project Cost |
| CIP-416 Phase 1            | 2019              | \$173,315   | \$61,609          | \$2,196                                | \$163,965               | \$2,148,660        |
| CIP-416 Phase 2            | 2019              |             | \$1,747,575       |                                        |                         |                    |
| CIP-421 Phase 1            | 2023              | \$283,787   | \$386,618         | \$0                                    | \$210,795               | \$3,080,714        |
| CIP-421 Phase 2            | 2023              |             | \$2,199,514       |                                        |                         |                    |
| Total Cost                 |                   |             |                   |                                        |                         | \$5,229,374        |
| Annual Cost (past 7 years) |                   |             |                   |                                        |                         | \$747,053          |

#### 4.8. Equipment Maintenance and Replacement Policy

The City has a comprehensive equipment maintenance program. Equipment is regularly checked, adjusted, repaired or replaced as necessary. Those major fixed assets are replaced when they meet or exceed the City's established fixed assets replacement criteria based on age, mileage, hours of use, repair history, safety, etc. Replacement of or additions to the major assets are done through the annual budget process of the City.

#### 4.9. Training for Field Operations Personnel and Contractors

The SO&M personnel and the public works inspectors attend structured collection system training classes or seminars given by other agencies including: California Occupational, Safety and Health Administration (CALOSHA), California Water Environment Association (CWEA), County Sanitation Districts' (CSD), etc. This is to keep them abreast with the latest information in the industry on how to safely and efficiently carry out their tasks. The City also utilizes informal training approaches, such as tailgate meetings, monthly safety meetings and apprenticeship training program from higher level staff.

Additionally, only companies with well trained and experienced personnel are considered for emergency SSO mitigation or sewer construction and rehabilitation work.

## 5. DESIGN AND PERFORMANCE PROVISIONS

### **5.1. Updated Design Criteria and Construction Standards and Specifications**

Updated design criteria, and construction standards and specifications, for the construction, installation, repair, and rehabilitation of existing and proposed system infrastructure components, including but not limited to pipelines, pump stations, and other system appurtenances. If existing design criteria and construction standards are deficient to address the necessary component-specific hydraulic capacity as specified in section 8 (System Evaluation, Capacity Assurance and Capital Improvements) of this Attachment, the procedures must include component-specific evaluation of the design criteria.

### **5.2. Procedures and Standards**

Procedures and standards for inspecting and testing of newly constructed, newly installed, repaired, and rehabilitated system pipelines, pumps, and other equipment and appurtenances.

#### 5.1. Overview

Procedures and standards for inspecting and testing of newly constructed, newly installed, repaired, and rehabilitated system pipelines, pumps, and other equipment and appurtenances.

#### 5.2. Purpose

This requirement will create continuity within the system, preventing inconsistencies from leading to hydraulic deficiencies which can result in a sanitary sewer overflow.

#### 5.3. Minimum Requirements

At a minimum, each enrollee must:

- a) Develop and implement consistent design and construction standards for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- b) Develop and implement procedures and standards for inspecting and testing the installation of new sewers, pumps and other appurtenances and for rehabilitation and repair projects.

#### 5.4. Design and construction standards and specifications

The City uses a mix of industry standards and guidelines as well as established City standard drawings to ensure that its wastewater collection systems facilities are properly designed and constructed. These facilities include, but are not limited to, gravity sewers and other related

items.

Design guidelines for the construction and rehabilitation of gravity sewers, force mains, and other appurtenances include, but are not limited to, environmental record searches, alignment selection, hydraulic analysis, capacity, pipe design, survey, substructure verification, and soil testing. Criteria for zoning, friction coefficients, minimum and maximum slopes and velocities, manhole spacing and materials are outlined in the design specifications tailored for the associated facility.

Design criteria are established to ensure that the sewer collection system can operate efficiently under all anticipated flow conditions. At a minimum, all pipes should be 8 inches or larger in diameter and the velocity of flow should be greater than 2 feet per second at peak dry weather flow. For sewer projects, the City relies on the Standard Specifications for Public Works Construction (Greenbook) and the American Public Works Association Standards. And for each design project, the City or its consultant develops technical specifications that are specifically tailored for that facility.

To further assure that wastewater collection facilities are properly designed and constructed, design of all project drawings, by both in-house staff and outside consultants, follow an established review procedure. Licensed engineers oversee and/or perform all facility design. Project drawings are checked and reviewed by licensed engineers prior to approval for construction.

## 5.5. Procedures and standards for inspection and testing

The City provides inspection for the installation of new and rehabilitation of deteriorated public sewer facilities within the City's jurisdiction. Inspectors are well trained in pipeline and pumping station construction, they attend training classes and educational seminars to stay familiar with advancements in the industry. The inspectors are also provided with adequate tools and materials to perform their jobs, including the project specific Construction Plans and Specifications, the Standard Specifications and Standard Plans for Public Works Construction and the Public Works Inspector's Manual and reporting forms. The City also requires the preparation and submittal of "Record Drawings" of each as-constructed and completed project prior to final approval and acceptance of the project as public infrastructure. Following construction, the sewer GIS map is updated per the Record Drawings.



## 6. SPILL EMERGENCY RESPONSE PLAN

The Plan must include an up to date Spill Emergency Response Plan to ensure prompt detection and response to spills to reduce spill volumes and collect information for prevention of future spills. The Spill Emergency Response Plan must include procedures to:

- Notify primary responders, appropriate local officials, and appropriate regulatory agencies of a spill in a timely manner;
- Notify other potentially affected entities (for example, health agencies, water suppliers, etc.) of spills that potentially affect public health or reach waters of the State;
- Comply with the notification, monitoring and reporting requirements of this General Order, State law and regulations, and applicable Regional Water Board Orders;
- Ensure that appropriate staff and contractors implement the Spill Emergency Response Plan and are appropriately trained;
- Address emergency system operations, traffic control and other necessary response activities;
- Contain a spill and prevent/minimize discharge to waters of the State or any drainage conveyance system;
- Minimize and remediate public health impacts and adverse impacts on beneficial uses of waters of the State;
- Remove sewage from the drainage conveyance system;
- Clean the spill area and drainage conveyance system in a manner that does not inadvertently impact beneficial uses in the receiving waters;
- Implement technologies, practices, equipment, and interagency coordination to expedite spill containment and recovery;
- Implement pre-planned coordination and collaboration with storm drain agencies and other utility agencies/departments prior, during, and after a spill event;
- Conduct post-spill assessments of spill response activities;
- Document and report spill events as required in this General Order; and
- Annually, review and assess effectiveness of the Spill Emergency Response Plan, and update the Plan as needed.

### 6.1. Overview

This element of the SSMP consists of both the contingency plan and the procedures for responding to a spill event.

## 6.2. Purpose

Proper procedures must be established and put into practice in order to minimize the negative effects of a spill. This section requires the implementation of a concise set of procedures that will seek to ensure that all negative effects of a spill on public health and the environment are minimized. Proper spill response procedures are one of the main reasons for the development of the WDRs for spills.

## 6.3. Minimum Requirements

At a minimum, each enrollee must include in its spill emergency response plan:

- a) Proper notification procedures for primary responders and regulatory agencies;
- b) A program to ensure appropriate response to all spills;
- c) Procedures to ensure prompt notification of appropriate officials or other potentially affected agencies for reporting purposes;
- d) Procedures to ensure that all appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are properly trained;
- e) Procedures to address emergency operations
- f) A program to ensure all steps are taken to contain a spill and prevent/minimize discharge to waters of the States or any drainage conveyance system.

## 6.4. Spill Response Procedure

The City provides 24-hour emergency services to investigate and act upon reports or complaints related to problems in the sewer system. Personnel are available 24-hours each day of the year to receive and act on any calls or automated alarms related to problems such as SSOs. During business hours, emergency calls are received by the operator, who will call and dispatch the nearest sewer maintenance crew to the problem site. For after hour emergencies, the Police Department dispatcher will contact the 'On-call' sewer maintenance worker, in the order listed on the emergency home telephone list. The on-call worker who receives the emergency call will investigate the complaints and take appropriate action, including immediate dispatch of a standby crew with necessary equipment to take care of the problem, or refer the call to other agencies if the problem is found to be under another's jurisdiction. These spill reporting procedures are presented in a flow chart in Section 6.4.1, below.

The crew responding to a spill emergency is required to stop the spill, contain it as much as possible, limit access to the contaminated area, and ensure that the facility or area is cleaned up and returned to normal operation. Residents or businesses in the immediate vicinity of the spill are to be informed of the cause of the problem and the remedial action taken.

The County Health Department is notified of all overflows and if the overflow exceeds 1,000 gallons and or reaches or threatens to discharge to surface waters, the Regional Water Quality Control Board and the State Office of Emergency Services are notified. The Flood Maintenance District (FMD) is notified of all overflows that discharge into the storm drain system. The role of FMD is to assist in tracing and capturing the spill as much as possible before it reaches the Waters of the State. The agencies to be notified, method and time frame for notification, and the phone/fax numbers of the agencies are presented in Section 6.4.1, below. The relevant data about the spill, such as location, volume, agencies notified, etc., is recorded in field report forms and later stored in the computer. All field personnel are trained to be conversant with these procedures and to accurately report spill incidents. The SO&M

time goal on responding to emergencies, such as SSO, flood outs, or serious stoppages/blockages, is 60 minutes.

The following subsection provides a Description, Agencies to be Notified' and Notification and Timeframe by spill category in tabular form with contact phone numbers by Agency on the second page.

6.4.1 Regulatory Agencies Notification and Timeframe

**Telephone/Fax** Within two (2) hours of becoming aware of any Category 1 spill greater than or equal to 1,000 gallons discharged to surface waters or spilled in a location where it threatens to discharge to surface waters, the City will notify the California Office of Emergency Services (OES) and obtain a notification control number. **Call Cal OES at: (800) 852-7550**

| Spill Category | Type or Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Agencies to be Notified                                                                                                                                                                                                                                                                                                                                                                  | Type of Notification and Timeframe                                                                                                                                  |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | <p>A spill of <u>any volume</u> of sewage from or caused by a sanitary sewer system regulated under the General Order that results in a discharge to:</p> <ul style="list-style-type: none"><li>• A surface water, including a surface water body that contains no flow or volume of water; or</li><li>• A drainage conveyance system that discharges to surface waters when the sewage is not fully captured and returned to the sanitary sewer system or disposed of properly.</li></ul> <p>Any spill volume not recovered from a drainage conveyance system is considered a discharge to surface water, unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility.</p> <p>A spill from an Enrollee-owned and/or operated lateral that discharges to a surface water is a Category 1 spill.</p> | <p>LA County Health Department, County Operator (notify if spill enters waters of the state)</p> <p>Flood Maintenance Division</p> <p>State Office of Emergency Services</p> <p>LA County Sanitation Districts Sanitation District (Report public sewer backups into dwellings or the street)</p> <p>Regional Water Quality Control Board</p> <p>State Water Resources Control Board</p> | <p>The City will submit a draft report within three (3) business days of becoming aware of the spill and certify within 15 calendar days of the spill end date.</p> |
| 2              | <p>A spill of <u>1,000 gallons or greater</u>, from or caused by a sanitary sewer system regulated under the General Order that <b>does not</b> discharge to a surface water.</p> <p>A spill of 1,000 gallons or greater that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system, is a Category 2 spill.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>LA County Health Department, County Operator</p> <p>State Water Resources Control Board</p>                                                                                                                                                                                                                                                                                           | <p>The City will submit a draft report within three (3) business days of becoming aware of the spill and certify within 15 calendar days of the spill end date.</p> |
| 3              | <p>A spill of <u>equal to or greater than 50 gallons and less than 1,000 gallons</u>, from or caused by a sanitary sewer system regulated under the General Order that <b>does not</b> discharge to a surface water.</p> <p>A spill of equal to or greater than 50 gallons and less than 1,000 gallons, that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 3 spill.</p>                                                                                                                                                                                                                                                                                                                                                                                                               | <p>LA County Health Department, County Operator</p>                                                                                                                                                                                                                                                                                                                                      | <p>The City will submit a Certified Spill Report within 30 calendar days after the end of the month in which the spill occurred.</p>                                |
| 4              | <p>A spill of <u>less than 50 gallons</u>, from or caused by a sanitary sewer system regulated under the General Order that <b>does not</b> discharge to a surface water.</p> <p>A spill of less than 50 gallons that spills out of a lateral and is caused by a failure or blockage in the sanitary sewer system is a Category 4 spill</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>LA County Health Department, County Operator</p>                                                                                                                                                                                                                                                                                                                                      | <p>The City will submit a certified report within 30 days after the end of the calendar month in which the spill occurred.</p>                                      |
| Private Spill  | <p>A spill from a privately-owned sewer lateral and/or private sanitary sewer system.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>LA County Health Department, County Operator</p> <p>State Water Resources Control Board</p>                                                                                                                                                                                                                                                                                           | <p>On-Line Database at enrollee’s discretion.</p>                                                                                                                   |
| N/A            | <p>No-spills in a calendar month</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>State Water Resources Control Board</p>                                                                                                                                                                                                                                                                                                                                               | <p>Online Database Certified – Within 30 calendar days after the end of each calendar month, file statement that no spills occurred.</p>                            |

| Agency                                                                                                        | Contact Number                                  |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| LA County Health Department, County Operator                                                                  | 626-430-5420-Bus. Hrs<br>213-974-1234-After Hrs |
| Flood Maintenance Division                                                                                    | 562-861-0316-Bus. Hrs                           |
| LA County Sanitation Districts Sanitation District (Report public sewer backups into dwellings or the street) | 562-437-6520 (Same for after hours)             |
| State Office of Emergency Services                                                                            | 800-852-7550 [24/7]                             |

#### **6.4.1 Field Response, Report Protocol and Forms**

Corrective actions and reporting guides are described and an investigation and reporting format are included for reference use.

#### **6.4.2 Procedure to ensure that staff and contractors are aware of and are appropriately trained to follow Emergency Response Plan**

The SO&M Emergency Response Plan is available to key personnel who are responsible for managing or responding to spills. Copies of the City's instruction manuals are available to field crews and engineers at the office who manage or have the role of preparing spill reports to regulatory agencies. The experience of the Contractors' emergency response team plays a very important part in the selection process during the selection of the City's as needed Emergency Contractors.

#### **6.4.3 Procedures to address emergency operations such as traffic and crowd control and other necessary response activities.**

The SO&M field personnel and employees of the emergency response contractors who are retained for spill responses are well trained in traffic and crowd control. The City's vehicles are well equipped with traffic and crowd control tools, including orange traffic control cones, yellow tape, flashing lights, orange uniforms, first-aid supplies, etc.

#### **6.4.4 Program to eliminate or minimize discharges into Waters of the United States**

The SO&M personnel and emergency contractors' crews are properly trained on methods and procedures to prevent or limit the amount of spills into Waters of the United States and how to mitigate their impacts. Some of the methods include the use of sandbags to contain spills, absorbent tube socks to prevent spill discharge into a drainage conveyance system, and the use of vacuum trucks to suck up contained spills and dump effluent back into the collection system at other safe locations. SO&M personnel have the reduction of response time for spills as one of the major goals. Reducing response time would significantly limit the amount of spills that reaches the Waters of the United States.

#### **6.4.5 Spill flow estimation tables and photographs**

City crews have been provided with flow estimation pictures and tables that help in estimating sewer overflows.

The following chart (Figure 6.1) shows the City's current Spill Response Plan.

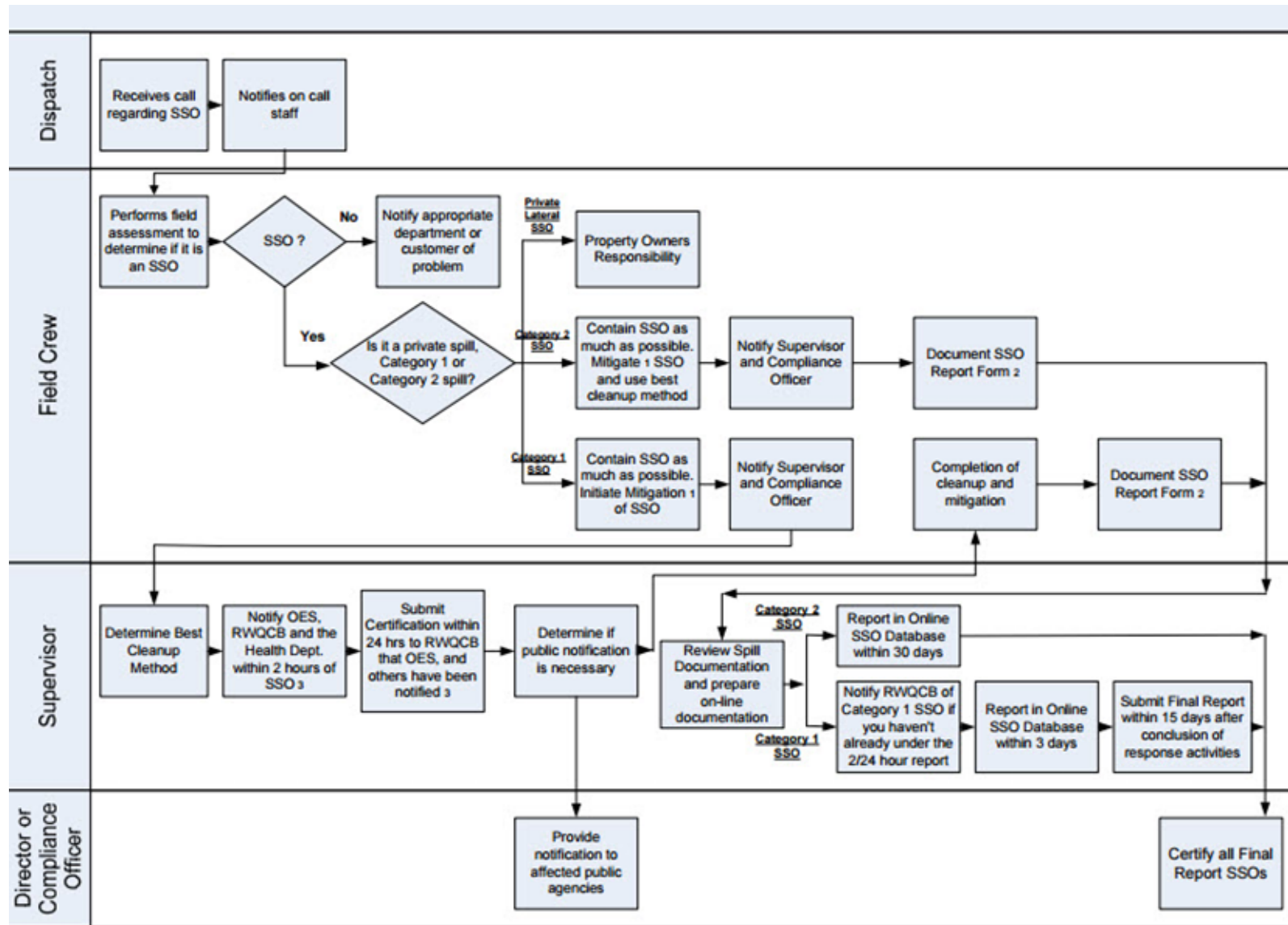


Figure 6.5 Spill Response Plan

## 7. SEWER PIPE BLOCKAGE CONTROL PLAN

Each Enrollee shall evaluate its service area to determine whether a program is needed to control FOG, rags and debris. If an Enrollee determines that a program is not needed, the Enrollee must provide justification for why it is not needed. The program shall include the following as appropriate:

- An implementation plan and schedule for a public education outreach program that promotes proper disposal of pipe-blocking substances;
- A plan and schedule for the disposal of pipe-blocking substances generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of pipe-blocking substances generated within a sanitary sewer system service area;
- The legal authority to prohibit discharges to the system and identify measures to prevent spills and blockages;
- Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;
- An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and
- Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified immediately above.

### 7.1. Overview

Under the Order, the City is required to evaluate its service area to determine whether a pipe-blocking substances control program is needed. If the City determines that a pipe-blocking substances program is not needed, it must provide justification for why it is not needed. If pipe-blocking substances is found to be a problem, the City must prepare and implement a pipe-blocking substances source control program to reduce the amount of these substances discharged to the sanitary sewer system.

### 7.2. Purpose

FOG is generated in most types of restaurants and food service establishments during food preparation, food service, and kitchen clean up. If flushed down the drain, FOG can build up in pipes, pumps, and equipment -- causing significant problems in the sanitary sewer system,



including line blockages. Blockages can lead to sewer overflows, posing environmental and public health hazards. Understanding and controlling discharges of FOG will greatly reduce potential liability of spills and efforts required to keep lines clean. The key to reducing FOG in the sanitary sewer system includes both a good source control program, as well as preventative maintenance to ensure FOG that does build up within the system is cleaned before significant buildup can occur. Additionally, understanding your collection system and the type of discharges within the service area is paramount to the strategic implementation of a pipe-blocking substances control program.

### 7.3. Minimum Requirements

At a minimum, each enrollee must:

- a) Determine if pipe-blocking substances is (or could be) an issue within the service area. (If pipe-blocking substances is found not to be an issue, then justification must be provided).
- b) Create a plan and schedule for a public education outreach program that promotes proper disposal of pipe-blocking substances;
- c) Develop a plan and schedule for the disposal of FOG generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of pipe-blocking substances generated within a sanitary sewer system service area;
- d) Ensure that the appropriate legal authority to prohibit discharges to the system and identify measures to prevent spills and blockages;
- e) Require the installation of grease removal devices (such as traps or interceptors), including design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- f) Make sure that the agency has the authority to inspect grease producing facilities, enforcement authorities, and whether the agency has sufficient staff to inspect and enforce the FOG ordinance;
- g) Identify sections of the sanitary sewer system that are subject to FOG blockages and establish a cleaning maintenance schedule for each section; and
- h) Develop and implement a source control and/or cleaning program for all sources of FOG discharged to the sanitary sewer system.

#### 7.4. Public education and outreach program

City proactively reaches out to users of its sewer system regarding the community's pipe-blocking substances source control program. Information on proper disposal of FOG and other spill prevention measures, including installation of grease traps, backwater valves, sewer lateral maintenance, etc. is disseminated through publication of quarterly articles in newsletters, and notices with business license renewals, on a usual schedule. These notifications provide descriptions of grease control efforts that can be undertaken by homeowners and businesses alike.

The City uses in house staff to provide informational and educational information to businesses and residents.

FOG in the local sewer system can be a prime contributor to a spill and its corresponding health and safety impacts. Related health and safety issues can also result from the discharge of pharmaceuticals and pesticides into the sanitary sewer system. Although not usually a causative factor in sewer overflows, these chemicals can be toxic and have disruptive environmental and biological effects. Discharges of such chemical compounds into the sewers should also be avoided and addressed in the education and outreach program. *"No drugs or household pesticides down the drain"*, is a compatible health and safety advisory.

#### 7.5. Disposal method and schedule for pipe-blocking substances generated within the system service area

Solidified FOG, found in the public sewer system during regular scheduled cleaning operations or clearing of a blockage, is trapped, collected and taken to an available local rendering company or qualifying dump bin (site), or to the Joint Water Pollution Control Plant (JWPCP), in the City of Carson, operated by CSD. The solid debris (FOG, roots, grit, etc.) collected from the system are taken to permitted FOG disposal facilities such as a land fill or the JWPCP. FOG in liquid form is flushed down by hydro jetting to receiving treatment facilities for disposal.

Additionally, the City also directs business to the [calfog.org](http://calfog.org) website so they can find FOG rendering business and also have a list that they provide during the inspections.

#### 7.6. The legal authority to prohibit discharges to the system and identify measures to prevent spills and blockages.

The legal authority to prohibit illicit discharges (i.e. FOG, etc.) into the sewer system is discussed in Section 5 of this document. Requiring grease interceptors at FSE to prevent the discharge of grease to the public sewer system and educating the public on proper disposal methods for FOG are also discussed in this chapter. Discharges from industrial classification facilities are usually controlled under the terms of an industrial wastewater discharge permit, which is issued and monitored by the local wastewater agency.

**7.7. Requirements to install grease removal devices, design standards, maintenance, BMP's, record keeping and reporting requirements.**

The City Building Official is authorized to monitor and enforce the terms of the Plumbing Code and the Public Health Code, respectively. This includes domestic waste disposal from residential and commercial facilities. The City Code prohibits the discharge of "any material which may create a public nuisance, or menace to the public health or safety, or which may pollute underground or surface waters, or which may cause damage to any storm-drain channel or public or private property."

The DPW is charged with reviewing, permitting, and inspecting the existing industrial waste facilities that discharge into the City's wastewater collection system. Pretreatment devices are required for industrial waste generating facilities, including restaurants and other FSE. Grease removal devices are required to be designed per the PC, Chapter 10, approved, installed and operated in a manner to control discharges of FOG into the sanitary sewer system. Such devices are also to ensure that connected facilities do not create nuisances or menaces to the public peace, health or safety hazards, or adverse impacts on the public sewerage system, soil, underground and/or surface waters. If there is a FOG related problem associated with an industrial waste permit, City will take enforcement action against the permittee.

If during inspection of the sanitary sewer system, SO&M personnel determine that a FOG related problem exists and is traceable to a domestic sewage source of such character that is not satisfactory, under the City Code, pretreatment could be required or the discharge required to be eliminated. Domestic waste containing FOG can lead to SSO which are public nuisances, and California Health and Safety Code Division 5, Part 3, Chapter 6, Article 2 can also be used to impose appropriate domestic sewage discharge requirements.

The effectiveness of any grease removal devices is dependent upon their routine maintenance and monitoring/inspection for conformance with its intended purpose. Regular inspection and maintenance activity logging with quarterly reporting are required and are verified by City staff as part of the Industrial /Non-Domestic Waste Permit inspections which may create a public nuisance, or menace to the public health or safety, or which may pollute underground or surface waters, or which may cause damage to any storm-drain channel or public or private property."

The DPW is charged with reviewing, permitting, and inspecting the existing industrial waste facilities that discharge into the City's wastewater collection system. Pretreatment devices are required for industrial waste generating facilities, including restaurants and other FSE. Grease removal devices are required to be designed per the PC, Chapter 10, approved, installed and operated in a manner to control discharges of FOG into the sanitary sewer system. Such devices are also to ensure that connected facilities do not create nuisances or menaces to the public peace, health or safety hazards, or adverse impacts on the public sewerage system, soil, underground and/or surface waters. If there is a FOG related problem associated with an industrial waste permit, City will take enforcement action against the permittee.

If during inspection of the sanitary sewer system, SO&M personnel determine that a FOG related problem exists and is traceable to a domestic sewage source of such character that is not satisfactory, under the City Code, pretreatment could be required or the discharge required to be eliminated. Domestic waste containing FOG can lead to SSO which are public nuisances, and California Health and Safety Code Division 5, Part 3, Chapter 6, Article 2 can also be used to impose appropriate domestic sewage discharge requirements.

The effectiveness of any grease removal devices is dependent upon their routine maintenance and monitoring/inspection for conformance with its intended purpose. Regular inspection and maintenance activity logging with quarterly reporting are required and are verified by City staff as part of the Industrial /Non-Domestic Waste Permit inspections.

7.8. Authority to inspect grease producing facilities, to enforcement, and evidence of adequate staffing to inspect and enforce the FOG ordinance.

As discussed in Section 5 of this document, the City has legal authority to inspect and enforce the local FOG ordinances. City has adequate staff to conduct inspections of the few pre-treatment facilities at the permitted FSE connected into the city sewer system. The funding mechanism now in place allows for increases in permit and other services charges if necessary to hire additional staff.

7.9. Cleaning schedule for identified FOG prone sewer segments

Experience has shown that FOG contributes to about 50% of the total SSO events that occur in a community sewer system. The remaining 50% is usually attributable to root intrusion into the system and other structural causes. As indicated in Section 6 of this document, FOG prone sections of City's collection system, otherwise called "hot spots," are identified during routine maintenance operations and investigation of stoppages resulting in a SSO event. These "hot spots" are typically cleaned by hydro jetting and rodding or cutting if roots are encountered. Those portions of the system found to have persistent FOG problems are inspected and cleaned more frequently, depending on the magnitude of the problem. Furthermore, segments of the collection system with persistent FOG problems are referred to the DPW for additional evaluation and corrective actions.

For example, City has increased maintenance frequency in the known hot spot areas. Food service facilities discharging to the known hot spots have grease removal devices and their maintenance frequency is also increased. The maintenance of the grease interceptors and grease traps is verified during the annual Industrial Waste Inspection. If a facility is contributing excess amount of FOG and they do not have a grease removal device they will be notified by the Public Works Director to install a pretreatment system.

7.10. Source control measures developed and implemented for "hot spots"

Each "hot spot" cause and condition is not the same. For each identified problem location, the means of effective maintenance is noted on the respective "hot spots" list for review and regular follow-up action by the sewer maintenance crews. The activities can be amended as needed.

7.11. Some BMPs for Fats, Oils and Grease

Examples of BMPs for local application are on the following pages.

**Some Best Management Practice (BMP) for Fats, Oils, and Grease**

Residual fats, oils and grease (FOG) are by-products that food preparation and food service establishments and automotive service facilities and machine shops must constantly manage. Typically, FOG enters a facility's plumbing from wash sinks and floor drains during daily operations. Sanitary sewer systems are not designed or equipped to handle accumulating FOG on the interior of sewer collection system pipes due to unmanaged – unmaintained discharges. Keeping FOG materials out of the plumbing system, by reasonable methods, is an important factor. The following are suggestions for proper FOG management:

### **Bulk or Dry Clean-Up**

- Practice bulk and dry materials clean-up before using wet methods that use water.
- Remove bulk or other solid food and grease laden substances into a suitable container before rinsing or washing the initial containers or surfaces that will drain into the plumbing system
- Keep drain screens in place and fully serviceable to avoid clogging drains or accumulating FOG or grit on the interiors of pipes.
- Do not pour grease, fats, or oils down the drain nor place food scraps in the drain.
- Use food grade paper to soak up oils and grease and dispose of appropriately.
- Use paper towels to wipe down surfaces and work areas. Cloth towels require washing and thereby introducing FOG back into the drains.
- Success of bulk or dry clean-up is dependent upon the behavior of individuals and their access to tools and materials for use in removing bulk and dry materials before washing.

### **Spill Prevention**

- Preventing spills reduces the amount of waste that will require clean-up.
- A dry surface workplace is safer for everyone in avoiding slips, trips and falls.
- Capture bulk or dryer materials and place them into an appropriate container.
- Empty containers before they are full to avoid spills.
- Cover any FOG container before transporting to the rendering storage container.
- Provide employees with proper tools to transport materials without spilling

### **Maintenance**

- Whatever method(s) are being used to collect, filter and store FOG, ensure that equipment is regularly maintained.
- Employees should be aware of and trained to perform correct and scheduled cleaning procedures.
- A daily and weekly maintenance schedule is highly recommended.

- Contract with a responsible service company to regularly and thoroughly clean larger components and spaces requiring specialized equipment and skills (e.g. large hood filters, hot tanks, floor drain pipes, specialty tools).
- Smaller and less complex elements can be cleaned by hand by the user (e.g. small hood filters, counter/bench tops, sinks, storage areas, daily tools).
- Skim/filter fryer grease daily and test the oil to determine when change is necessary. Build-up of carbon deposits on the bottom of the fryer acts as an insulator that forces the fryer to heat longer, thus causing the oil to break down sooner. This extends the life of both the fryer and the oil.
- Avoid discharging fryer oil into a drain or grease trap, but dispose into a rendering container for transport to a rendering company.
- Cleaning intervals depend upon the type of product being prepared and the typical deposition of materials experienced. The larger the volume produced and deposits incurred, the more frequent the cleaning. This may warrant setting up a system of high use, high deposition work to be done in certain equipment that is cleaned more frequently than others to confine maintenance efforts.

#### **Grease Traps and Interceptors**

- For grease traps and interceptors to be effective, the units must be properly sized, constructed and installed in a location to provide an adequate retention time for settling and accumulation of the FOG.
- For information on properly locating, constructing and sizing grease traps and interceptors, contact the local governmental agency and examine EPA guidance documents and UPC criteria.
- Ensure all grease-bearing drains discharge to the grease trap/interceptor.
- No toilet or shower waste should be plumbed to the trap/interceptor

#### **Oil and Grease Collection/Recycling and Food Donations**

- FOG consists of commodities that if handled properly can be treated as a valuable resource.
- Some rendering companies will offer services free-of-charge and other will give a rebate on the materials collected. Contact local rendering representative for specific information and details.
- Use only covered rendering barrels and make sure all drain screens are installed.
- Use a 3-compartment sink for ware washing. Begin with a hot pre-wash, then a scouring detergent wash, then a hot rinse. Each step should be trapped to capture non-emulsified FOG.
- Donations can reduce disposal costs. Ensure that edible food is not washed or flushed

down the drain. Edible food waste may be donated to a local food bank. Inedible food waste can be collected by a garbage feeder that will use discards for feeding livestock.

## 8. SYSTEM EVALUATION, CAPACITY ASSURANCE AND CAPITAL IMPROVEMENTS

The Enrollee shall prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:

- (a) **Evaluation:** Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;
- (b) **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and
- (c) **Capacity Enhancement Measures:** The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.
- (d) **Schedule:** The Enrollee shall develop a schedule of completion dates for all portions of the capital improvement program developed in (a)-(c) above. This schedule shall be reviewed and updated consistent with the SSMP review and update requirements as described in Section D. 14 of the General Order.

### 8.1. Overview

This element of the SSMP includes several major programs and activities regarding development of a capital improvement plan and hydraulic analysis. Most of the requirements are satisfied by the most recent collection system master plan.

### 8.2. Purpose

An important step in attempting to minimize the amount of SSOs in a given system is to determine how the system will react to different conditions and stresses. Once this is achieved, City officials can identify areas in need of improvement and prioritize projects for a



capital improvement program.

### 8.3. Minimum Requirements

At a minimum, each enrollee must:

- a) Describe the methods used to identify areas of the sanitary sewer system that lack the sufficient capacity to convey an appropriate peak flow;
- b) Establish consistent design criteria;
- c) The identification of capacity needs and the approach used to take the results of the capacity evaluation to produce a prioritized list of capacity improvement projects; and
- d) The development of a project schedule that addresses both condition-related and capacity-related projects.

### 8.4. System Evaluation

To assess the adequacy of the existing sewer system, a hydraulic evaluation of the city's sewer system was prepared in 2017 through the City's latest sewer master plan. The resulting report and recommended improvements will be added to this SSMP at that time.

### 8.5. Design Criteria

The Public Works Director is given the legal responsibility for ensuring sound, logical, and functional design of the public sewer infrastructure. The HBMC defines terms, establishes fees, sets out provisions for enforcement and maintenance. The basis of design standards for sewers is the Standard Plans for Public Works Construction; SPPWC "Green Book". For specifics on design and performance provisions, refer to Section 7.

### 8.6. Adequate Capacity

City's Public Works Department is the first line of defense in ensuring that the public sewer infrastructure is adequately planned, sized, correctly designed and easily maintainable. PWD legal authority to perform this important task is set forth in the multiple documents discussed in Section 5 and as detailed below.

For any new or expanded sewage discharges, the City requires completion of a sewer capacity study, by a registered engineer, prior to giving approval for projects that can affect the capacity of the public sewer system. The completed study will analyze the capacity in the existing system and will set forth mitigation requirements for the applicant to ensure adequate downstream capacity. The study will also justify the sizing of proposed lines to accommodate the peak flows from all areas tributary to the mainline sewer under consideration or pumping stations, now and in the future. The approved capacity study is referenced directly by the City's plan checker when design plans for the new infrastructure are submitted to assure adequate capacity. All proposals for new connection to existing sewer must also comply with the DPW's policies for managing available sewer capacity.

### 8.7. CIP Schedule

Following the 2017 CCTVing of the City's entire collection system, the potential rehabilitation segment candidates identified in the 2017 Sewer Master Plan update, were reviewed and recommended means of rehabilitation including point repairs, segment liners, manhole-to-manhole CIPP lining, and manhole-to-manhole pipeline replacement were developed. These

recommended improvements were designed, construction contracts awarded, and construction was completed or is currently wrapping up. These projects were detailed in Section 4. Following conducting a new round of CCTV, this cycle of CCTV analysis, design and construction will be repeated.

## 9. MONITORING, MEASUREMENT, AND PROGRAM MODIFICATION

The Plan must include an Adaptive Management section that addresses Plan-implementation effectiveness and the steps for necessary Plan improvement, including:

- Maintaining relevant information, including audit findings, to establish and prioritize appropriate Plan activities;
- Monitoring the implementation and measuring the effectiveness of each Plan Element;
- Assessing the success of the preventive operation and maintenance activities;
- Updating Plan procedures and activities, as appropriate, based on results of monitoring and performance evaluations; and
- Identify and illustrating spill trends, including spill frequency, locations and estimated volumes.

### 9.1. Overview

It is critical that the City monitors implementation of the SSMP elements, and measures the effectiveness of SSMP elements in reducing SSOs. Effectiveness should be measured by developing and tracking performance indicators on a regular basis. Performance indicators should be selected to meet the goals of the wastewater collection system agency.

### 9.2. Purpose

In order to effectively manage programs, performance measures that gauge success should be developed and data to support the findings must be collected. To this end, accurate and consistent data keeping is extremely important for successful sewer system management. It is imperative that the correct data is captured, in a format that is easily extractable, and that operations personnel understand their role in this process. Focus should be placed on performance metrics, components of trend tracking, and bench-marking procedures both internally and externally. Based upon data collected, decisions can be made as to changes that may be warranted and needed in order to maximize program efficiencies. Setting up a Monitoring, Measurement, and Program Modification program will allow a community to better manage and implement SSMP programs.

### 9.3. Minimum Requirements

At a minimum, the enrollee must:

- a) Maintain relevant information, including audit findings, to establish and prioritize appropriate Plan activities;
- b) Monitor the implementation and measure the effectiveness of each Plan Element;
- c) Assess the success of the preventive operation and maintenance activities;
- d) Update Plan procedures and activities, as appropriate, based on results of monitoring and performance evaluations; and

- e) Identify and illustrate spill trends, including spill frequency, locations and estimated volumes.

#### 9.4. Monitoring

Relevant data on all work done in the implementation and execution of the SSMP program will be documented and maintained in the DPW filing system and used in preparing the monthly Summary of Maintenance Productivity. These data files are used in the evaluation of the effectiveness of the overall program.

#### 9.5. Program Effectiveness Evaluation

The effectiveness of the program shall be monitored and tracked through the City Performance Measure Indicators of key activities to minimize sewer overflows. These include:

- total number of overflows
- total number equal to or greater than 1000 gallons discharged or reaching the Waters of the United States
- overflow response time
- reduction in repeated incidents of overflow at the same location
- reduction in number of overflows caused by flows exceeding the capacity of the collection system.

#### 9.6. Program Modifications

The City will be establishing the preventive maintenance sewer metrics for use in monitoring, measuring and adjusting sewer maintenance activities. After these metrics are included in the City's work order system, they will be monitored on a regular basis. Until this time, City staff will compile and monitor the most relevant indicators, which include the number and causes of SSOs, length of pipes cleaned, length of pipes televised, and length of pipes repaired or replaced.

#### 9.7. SSO Location Mapping and Trends

##### **9.7.1 Location Map**

The locations of SSO occurrences are tracked and causes are also recorded. This data is used for establishing SSO patterns, identifying hot spots as indicated by location clusters, and for scheduling work assignments and providing information on SSO activities.

##### **9.7.2 Mapping of SSO Frequencies**

The monthly numbers of SSOs are also depicted in charts and graphs. The charts are used to identify SSO trends and as an indicator of infiltration/inflow problems that need to be corrected. The graphs are used to identify SSO trends and to evaluate overall SSMP program success especially by comparing the graphs to different years and with results from other sewerage agencies.

## 10. INTERNAL AUDITS

As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size and performance of the system and the number of spills. At a minimum, these audits must occur every three years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the Enrollee's compliance with the SSMP requirements identified in this Attachment D.10, including identification of any deficiencies in the SSMP and steps to correct them

### 10.1. Overview

Audit programs are intended to provide controls for ensuring that all programs associated with the SSMP are being implemented as planned and managed appropriately. Audit outcomes should provide information about challenges and successes in implementing the SSMP by evaluating work practices and operations, documentation, procedures records and staff for implementation effectiveness and consistency. The audit will identify any program or policy changes that may be needed to continually improve effective implementation. Information collected as part of an audit should be used in to plan program or procedure revisions necessary to improve program performance.

### 10.2. Purpose

SSMP audit program development should be developed specifically for the sanitary sewer system, but agency-wide procedures should be incorporated to ensure program sustainability. The audit can contain information about successes in implementing the most recent version of the SSMP and identify revisions that may be needed for a more effective program. Information collected as part of the Monitoring, Measurement, and Program Modifications program should be used in preparing the audit. Quite often, performance measures and other management indicators are developed, providing a baseline that performance can be measured against.

Tables, figures, and charts can be used to summarize information about these indicators. An explanation of the SSMP development and accomplishments in improving the sewer system should be included in the audit, including:

- Progress made on development of SSMP elements, and if the sewer system agency is on schedule in developing all elements of the SSMP;
- SSMP implementation efforts over the timeframe in question;
- The effectiveness of implementing SSMP elements;
- A description of the additions and improvements made to the sanitary sewer collection system in the past reporting year; and
- A description of the additions and improvements planned for the upcoming reporting year with an estimated schedule for implementation.

### 10.3. Minimum Requirements

The WDR requires that all agencies develop appropriate audit procedures necessary to evaluate the effectiveness of the SSMP, as well as the agency's compliance with all

requirements identified in the WDR. The audit must identify any deficiencies in an agency's SSMP programs and include steps to correct these issues. At a minimum, audits must be conducted every three years and a report of the findings must be prepared and kept on file.

#### 10.4. SSMP Program Audit

The City will conduct periodic internal audits and prepare a report, at a minimum of every three years. The audit will focus on evaluating the operational and cost effectiveness of the SSMP as well as the City's compliance with all elements of the SSMP. This will include:

- Identification of any deficiencies in the SSMP
- Steps taken to correct any identified deficiencies
- Notes of interviews with key responding personnel and any contractors utilized
- Notes of operational observations, especially of each SSO event
- Notes on related equipment inspections
- Findings of all reviews of related records

The City hired an outside consultant this year to conduct a comprehensive updated SSMP. Future audits will be kept on file in the Office of the City Clerk, the DPW office, and at the field maintenance yard site.

#### 10.5. SSMP Certification

The SSMP has been presented to and acted upon by the Hermosa Beach City Council at a public meeting. Subsequent SSMP approval must also be considered and acted upon at a public meeting. Once approved, the Director of Public Works must certify its approval in compliance with the WDR requirements, including completion of the certification portion in the Online SSO Database Questionnaire by checking the appropriate milestone box, printing and signing the automated form and sending the signed form to:

State Water Resources Control Board  
Division of Water Quality  
Attn: SSO Program Manager  
P.O. Box 100  
Sacramento, CA 95812

#### 10.6. SSMP Modification and Re-certification

The SSMP must be updated every six years to keep it current. When significant amendments are made to any portion or portions of the SSMP, it must be resubmitted to the City Council for approval and re-certification. The re-certification shall be in accordance with the certification process described in section 10.5 above.

## 11. COMMUNICATION PROGRAM

The Plan must include procedures for the Enrollee to communicate with:

- The public for:
  - Spills and discharges resulting in closures of public areas, or that enter a source of drinking water, and
  - The development, implementation, and update of its Plan, including opportunities for public input to Plan implementation and updates.
- Owners/operators of systems that connect into the Enrollee's system, including satellite systems, for:
- System operation, maintenance, and capital improvement-related activities.

### 11.1. Overview

Communication programs are often underrated and overlooked. However, an effective communication program may end up being the key element that keeps your organization from missing critical SSMP deadlines. Involving the public early and at appropriate times will help your organization avoid last-minute comments that delay approval of your SSMP by your governing body. A quality communication program with satellite agencies will help to minimize negative operational impacts on your plant or collection system.

It is important to identify an individual who will be responsible for the development of your communication program. Larger agencies will typically have Communications and Media Officers or Public Information Officers who are appropriate to lead the development of the communication program. Smaller agencies who don't have these staff in-house should look to those within the agency who have exhibited strong writing skills, public speaking skills, experience with customer interface, or have successfully completed controversial projects. A self-assessment and rough timeline follow to help you on your way to a successful communication program!

### 11.2. Purpose

Identifying key stakeholders and key issues and thinking about how various stakeholders might react are the first steps to developing a communication plan. Understanding what elements of an SSMP they will be most concerned with is one of the many potential considerations that an agency may identify. Involving the right stakeholders on potentially controversial issues as early as possible is important to the success of any new program. Emphasizing collaboration and shared goals to reach a workable solution will not always ensure buy-off but will promote ownership and understanding. Avoiding proper outreach efforts for controversial issues in the hope that interested parties won't catch on usually backfires. These issues should be considered when developing a communication program.

### 11.3. Minimum Requirements

- a) The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.
- b) The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee's sanitary sewer system.

### 11.4. Communication

The City will provide all stakeholders and interested parties, the general public and other agencies, with status updates on the development and implementation of the SSMP and consider comments received from them. The City will utilize media such as quarterly newsletters, billing inserts, special brochures, annual reports, notices in newspapers, and the City's home web page for conveying this information. Additionally, the City will:

- Identify an individual within its organization who is responsible for development, implementation, and interface for the communication program.
- Identify resources necessary to solicit and incorporate input on each phase of the SSMP (development, implementation, and performance), as well as document the City's outreach efforts.
- Identify key community stakeholders and key issues that various stakeholders may be interested in and/or concerned with.
- Make sure to involve the right stakeholders on potentially controversial issues as early as possible. Emphasize collaboration and shared goals to reach a workable solution.
- Create a list of key milestones in each phase of the SSMP when stakeholder input would be most useful and effective.
- Create a convenient mechanism for stakeholder input. Additionally, key considerations, while developing a communication program include:
- Consider the development of a variety of communication methods, including newsletters, public meetings, web pages, and public service announcements. Different agencies will find that different communication methods are effective. Look for a method that reaches the desired audience at a reasonable cost.
- Consider joint efforts to develop a website with other agencies or professional organizations and share costs. The website could contain general information about the new Waste Discharge Requirements and SSMP components, provide space to make documents available for public review, and contain contact, meeting times and locations, and other agency-specific information.
- For communication with other satellite agencies, consider regular coordination meetings, annual surveys for changes in their system, and/or web pages devoted to satellite agency issues.
- Make sure to have identified a staff person responsible for satellite agency coordination. This person will ensure that the program is sustained, and City's efforts to get the program up and running aren't wasted once the SSMP is complete.

### 11.5. SSMP Availability

Copies of the SSMP will be maintained in the City offices of the City Clerk, the City Engineer, and the Director of Public Works and at each SO&M field yard site, with applicable summaries,



reports, and notices posted on the City's home web page. The adopted document shall also be made readily available to the Regional Water Quality Control Board (Region No. 4) representatives upon request and to the operators of any collection system or treatment facility downstream of the City's sanitary sewer system.

# Sewer Master Plan

August 2017



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## LIST OF ABBREVIATIONS

|      |                                                |
|------|------------------------------------------------|
| ACP  | Asbestos Cement Pipe                           |
| CCTV | Closed Circuit Television                      |
| CIP  | Capital Improvement Program                    |
| CIPP | Cured-in-place Pipe                            |
| DS   | Downstream                                     |
| DU   | Dwelling Unit                                  |
| DWF  | Dry Weather Flow                               |
| FAR  | Floor Area Ratio                               |
| GIS  | Geographic Information System                  |
| gpd  | Gallons per Day                                |
| HDPE | High Density Polyethylene                      |
| LF   | Lineal Feet                                    |
| mgd  | Million Gallons per Day                        |
| PDWF | Peak Dry Weather Flow                          |
| PVC  | Polyvinyl Chloride                             |
| SCAG | Southern California Association of Governments |
| tsf  | Thousand Square Foot                           |
| US   | Upstream                                       |
| VCP  | Vitrified Clay Pipe                            |





# CHAPTER 1 INTRODUCTION AND STUDY AREA

This introductory chapter provides background information on the study vicinity, scope of the Sewer Master Plan (SMP), existing sewer collection system, existing land use, and population.

## BACKGROUND AND SCOPE

Hermosa Beach (the City) is a city in the Los Angeles Basin in the southern portion of Los Angeles County. The City is bordered by Manhattan Beach to the north, Redondo Beach to the east and south, and the Pacific Ocean to the west. Figure 1-1 shows the vicinity map of the City.

The City's previous sewer master plan was completed in 2009 by MBF Consulting. Since then, several land development and capital improvement projects have been completed. Growth within the City is considered slow with population in the past twenty-five years changing from 18,219 in 1990 to 19,772 in 2015. Because of these changes in infrastructure and population, this updated SMP uses 2017 conditions as a basis for analysis and recommendations.

The study area boundary is coincident with the current Hermosa Beach city limits. The scope of the SMP evaluates all the City sewer structures that are within the city limits for hydraulic capacities, structural conditions and needed capital improvements. Existing and proposed structures are also evaluated under predicted 2040 flow conditions to ensure long-term solutions. Los Angeles County trunk sewers were not within the scope of this project and were not included in the SMP hydraulic model. The boundaries of the hydraulic model were set at the "outfalls", where wastewater flows leave the City collection system and enter into the Los Angeles County Sanitary District (LACSD) interceptor system.

## EXISTING SANITARY SEWER COLLECTION SYSTEM

Figure 1-2 shows the City's existing sanitary sewer collection system. The City provides sewer service to residents and businesses within the city limits. The City owns, operates, and maintains a sanitary sewer collection system including approximately 37 miles of gravity sewers and approximately 880 manholes.

The entire city sewer system discharges to LACSD sewer trunk lines. The sewer network is comprised of a series of independent networks with outfalls from the Hermosa Beach sewers to the LACSD system. There is one city-owned lift station that directs flow up from the beachfront toward the nearest outfall to the LACSD system. In addition, three small beachfront restroom lift stations are located along the beach and lifts sewage to the nearest collection system pipeline.

Table 1-1 shows the sewer diameters and the associated lengths of the City's sewer collection system. As shown in Table 1-1, the majority of the City sewers are 8-inch pipes, making up almost 80 percent of the City sewers, followed by 6-inch and 10-inch sewers each representing 10.8 percent and 4.1 percent of the system respectively. The remaining diameters account for less than 6 percent of the system with the largest pipe size of 24 inches.

Table 1-2 shows pipe materials for the various sizes of pipes in the City system. The majority of the system is composed of vitrified clay pipes or non-reinforced concrete pipes. Polyvinyl chloride, polyethylene, cast iron, and asbestos cement make up a small fraction of the system. There are fourteen pipes in the sewer-pipe database that do not list a pipe material.





Figure 1-1: Vicinity Map



Figure 1-2: Existing Hermosa Beach Sewer System

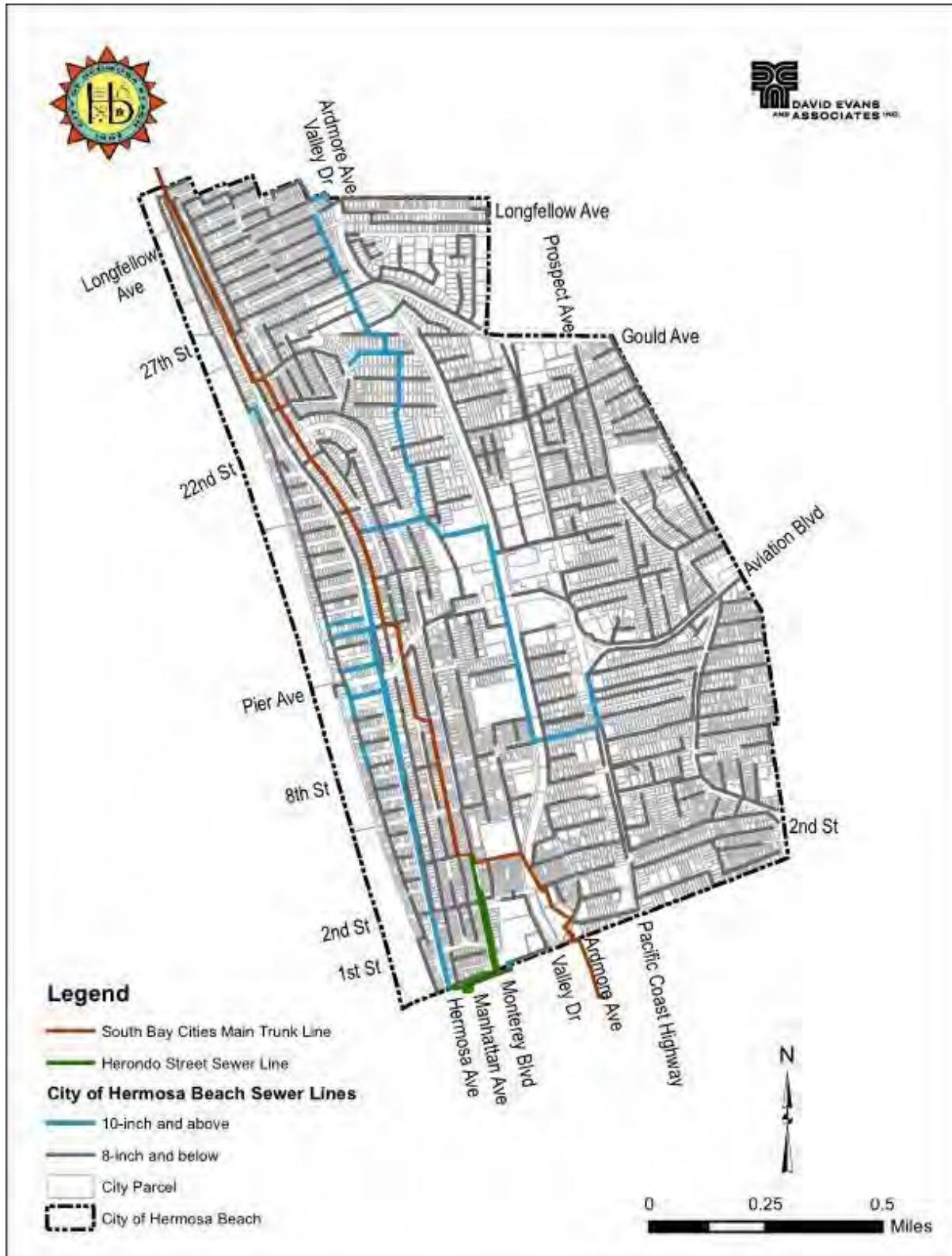


**Table 1-1: Sewer Diameters and Lengths**

| Sewer Diameter (inch) | No. of Segments | Length (feet)  | Length (mile) | % by Length |
|-----------------------|-----------------|----------------|---------------|-------------|
| 6                     | 79              | 21,018         | 3.98          | 10.8%       |
| 8                     | 720             | 155,088        | 29.37         | 79.5%       |
| 10                    | 44              | 8,069          | 1.53          | 4.1%        |
| 12                    | 11              | 2,102          | 0.40          | 1.1%        |
| 15                    | 15              | 3,583          | 0.68          | 1.8%        |
| 18                    | 6               | 1,478          | 0.28          | 0.8%        |
| 24                    | 17              | 3,655          | 0.69          | 1.9%        |
| <b>Total</b>          | <b>892</b>      | <b>194,993</b> | <b>36.93</b>  | <b>100%</b> |

**Table 1-2: Number of Segments with Specific Pipe Material and Diameter**

| Sewer Diameter (inch) | Vitrified Clay Pipes (VCP) | Polyvinyl Chloride (PVC) | Poly-ethylene | Cast Iron Pipe (CIP) | Concrete Pipe (RCP) | Asbestos Cement | N/A <sup>1</sup> |
|-----------------------|----------------------------|--------------------------|---------------|----------------------|---------------------|-----------------|------------------|
| 6                     | 62                         | 1                        | -             | -                    | 14                  | -               | 2                |
| 8                     | 372                        | 3                        | 4             | 4                    | 325                 | 1               | 11               |
| 10                    | 31                         | -                        | -             | -                    | 13                  | -               | -                |
| 12                    | 1                          | 4                        | 5             | -                    | 1                   | -               | -                |
| 15                    | 12                         | -                        | -             | -                    | 3                   | -               | -                |
| 18                    | 3                          | 2                        | -             | -                    | 1                   | -               | -                |
| 24                    | 16                         | -                        | -             | -                    | -                   | -               | 1                |
| <b>Total</b>          | <b>497</b>                 | <b>10</b>                | <b>9</b>      | <b>4</b>             | <b>357</b>          | <b>1</b>        | <b>14</b>        |

<sup>1</sup>. The database does not list the material for these pipes.

## EXISTING LAND USE

The existing land use data developed in the preparation of this Master Plan are based on the City's zoning provided by the City in GIS format. Table 1-3 provides a summary of the land use categories chosen for the analysis. The presented net acreages exclude streets and roads. Figure 1-3 presents the existing land use distribution throughout the City.

Among the existing developed parcels, residential land uses represent about 67 percent of the total area, zoned as High and Medium Density. The remaining land uses include 19 percent open space, 12 percent commercial, 1 percent light industrial, 1 percent mobile home park, and 1.9 acres institutional.



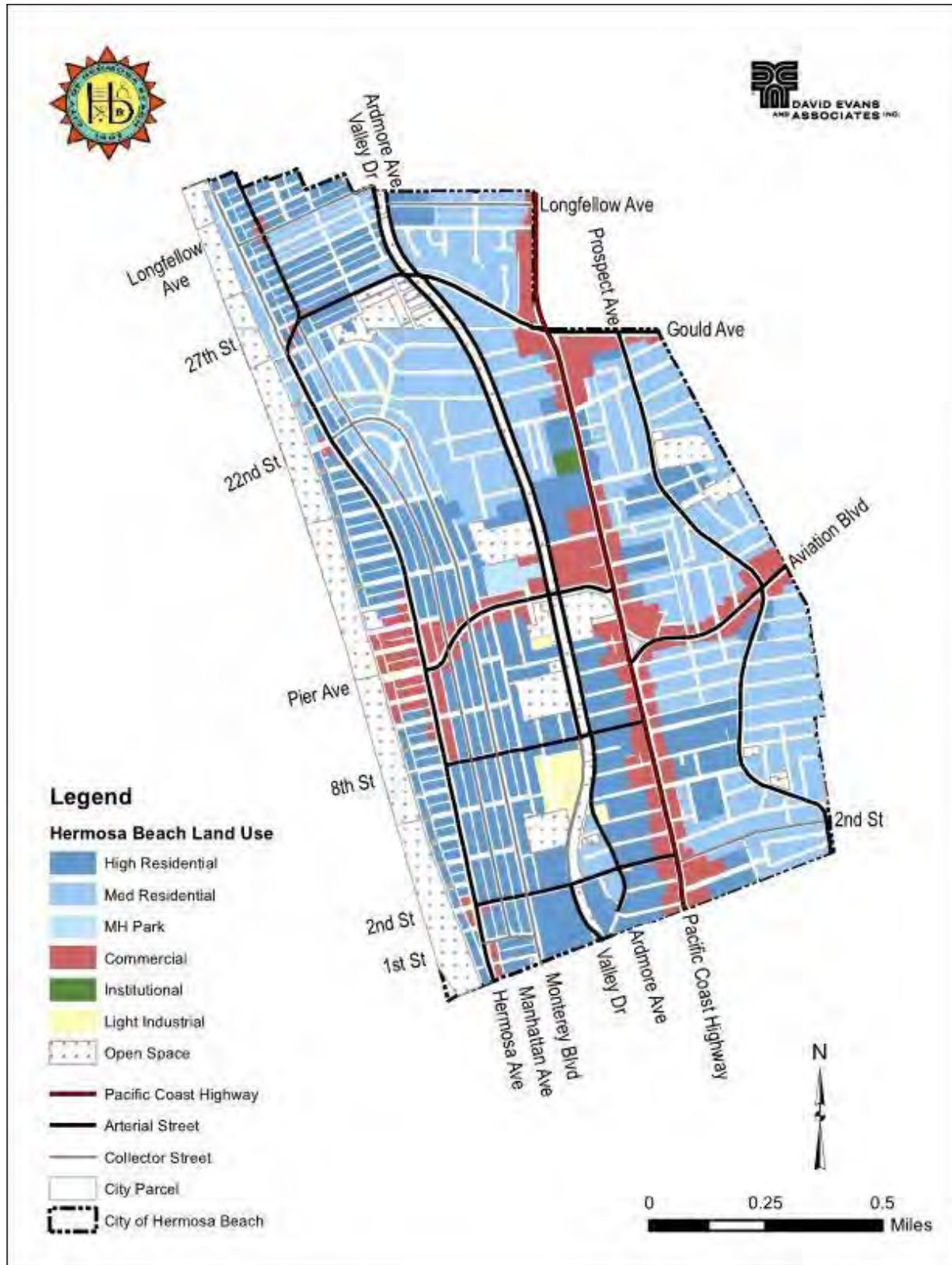
**Table 1-3: Existing City Land Use Table**

| <b>Land Use Category</b>   | <b>Number of<br/>Parcels</b> | <b>Acreage</b> | <b>% of Total Acreage</b> |
|----------------------------|------------------------------|----------------|---------------------------|
| High Density Residential   | 2515                         | 214.5          | 32%                       |
| Medium Density Residential | 2671                         | 235.1          | 35%                       |
| Commercial                 | 410                          | 79.8           | 12%                       |
| Institutional              | 4                            | 1.9            | 0%                        |
| Light Industrial           | 43                           | 7.5            | 1%                        |
| Mobile Home Park           | 2                            | 4.2            | 1%                        |
| Open Space                 | 57                           | 130.4          | 19%                       |
| <b>Total</b>               | <b>5702</b>                  | <b>673.6</b>   | <b>100.0%</b>             |





Figure 1-3: Existing City Land Use Map



## POPULATION

Historical population and housing data was obtained from the California Department of Finance. As shown in Table 1-4 and on Figure 1-4, the City's population increased from 18,219 in 1990 to 18,453 in 2000, which was an average annual increase of 0.13 percent. The population increased further by 0.56 percent annually between 2000 and 2010. Since then, the City's population has been continuing a slow increase, and was 19,772 by January 2015.

Available housing increased at an annual rate of 0.15 percent between 1990 and 2000, and continued to increase at a slightly higher rate of 0.32 percent between 2000 and 2010. There were 10,110 dwelling units in the City as of January 2015, a slight decrease from previous years. The number of vacant dwelling units increased from 364 in 2000 (3.70 percent vacancy) to 609 (6.00 percent vacancy) by 2015. The number of people per occupied dwelling unit (population density) has remained roughly constant since 1990 at about 2.0.

Projected population and housing for the City through 2035 in 5-year increments was obtained from the Southern California Association of Governments (SCAG) Regional Transportation Plan that was adopted in 2012.

As shown in Table 1-4 and on Figure 1-4, the City's population is relatively constant with very slow growth. The SCAG data indicates that Hermosa Beach's population is projected to decrease to 19,600 by the year 2020 but return to a trend of slow growth through 2035. Housing is also projected to decrease by 1.24 percent (relative to 2015) to 9,500 dwelling units in 2020. This projected estimate seems low considering that the City's available housing has not been that low since before 1990. Based on past trends, it is reasonable to assume that available housing will remain roughly constant in the near future at around 10,100 dwelling units. Assuming that vacancy will remain at 6.00 percent, the City's population density would remain constant at 2.19 people per occupied dwelling unit through the year 2035.

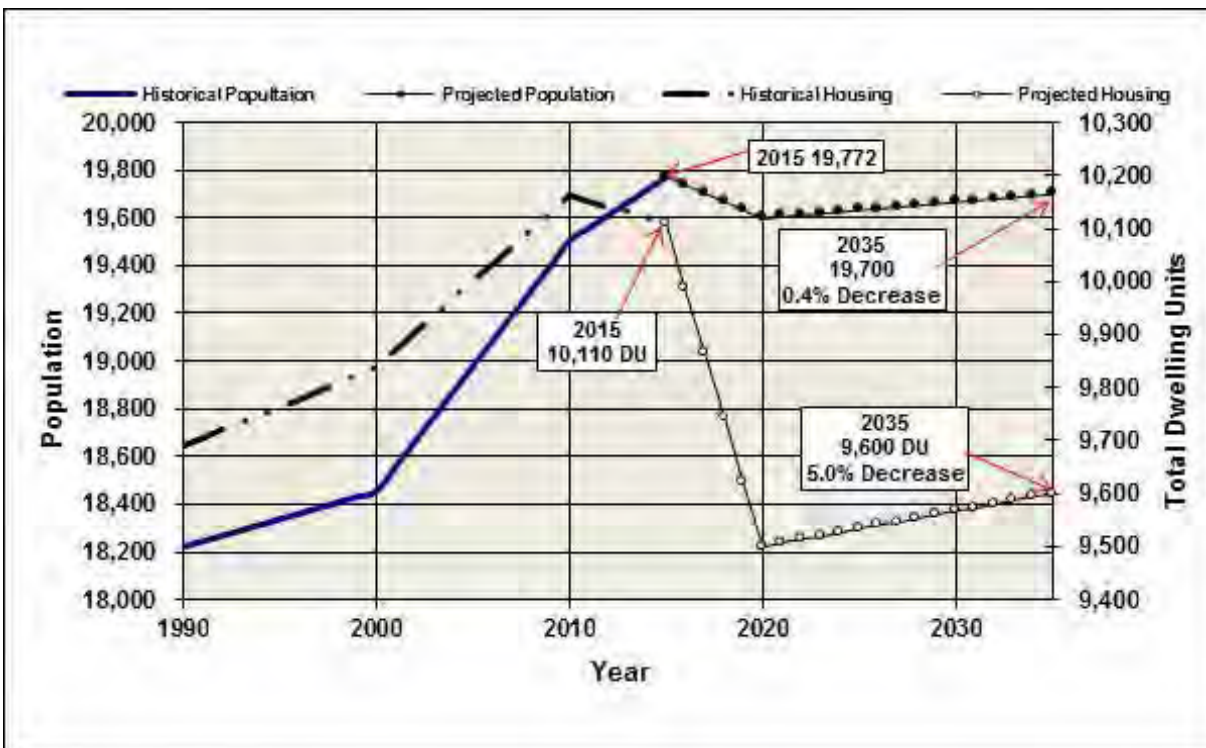


**Table 1-4: Historical and Projected City Population and Housing (1990 - 2035)**

|                                       | Historical City Population and Housing |        |        |        | Projected City Population and Housing |        |        |        |
|---------------------------------------|----------------------------------------|--------|--------|--------|---------------------------------------|--------|--------|--------|
|                                       | 1990                                   | 2000   | 2010   | 2015   | 2020                                  | 2025   | 2030   | 2035   |
| Population <sup>(a)</sup>             | 18,219                                 | 18,453 | 19,506 | 19,772 | 19,600                                | 19,633 | 19,667 | 19,700 |
| Annual % Increase                     | -                                      | 0.13%  | 0.56%  | 0.27%  | -0.17%                                | 0.03%  | 0.03%  | 0.03%  |
| Total Dwelling Units                  | 9,689                                  | 9,840  | 10,162 | 10,110 | 9,500                                 | 9,533  | 9,567  | 9,600  |
| Annual % Increase                     | -                                      | 0.15%  | 0.32%  | -0.10% | -1.24%                                | 0.07%  | 0.07%  | 0.07%  |
| Vacant Dwelling Units                 | 517                                    | 364    | 612    | 609    | 504                                   | 505    | 507    | 509    |
| % Vacant <sup>(b)</sup>               | 5.34%                                  | 3.70%  | 6.00%  | 6.00%  | 6.00%                                 | 6.00%  | 6.00%  | 6.00%  |
| Population per Occupied Dwelling Unit | 1.99                                   | 1.95   | 2.04   | 2.08   | 2.19                                  | 2.19   | 2.19   | 2.18   |

Notes:

- a) Non-household populations such as nursing homes, school dormitories, state and federal prisons, and military barracks are included in the total population.
- b) Vacant dwelling unit percentages for 2015 - 2035 were assumed equal to the 2010 vacancy percentage of 6.00%.

**Figure 1-4 Historical and Projected Population and Housing**

# CHAPTER 2 EXISTING AND FUTURE WASTEWATER FLOWS

This chapter describes the development of existing and potential future wastewater flow estimates for the City's sanitary sewer collection system. The flow monitoring data along with other developed flow parameters provide the basis for the hydraulic model development and the subsequent capacity analysis.

## FLOW ESTIMATING METHODOLOGY

Wastewater flows entering the City's sanitary sewer collection system were estimated for dry weather conditions based on the following processes:

1. Analyze measured flow data and determine representative diurnal curves for each site and the corresponding average daily flow rates for unit flow factors developed for hydraulic model calibration purposes;
2. Identify vacant parcels in GIS;
3. Develop and calibrate wastewater unit flow factors for dry weather flow conditions based on General Plan land uses, flow monitoring data and tributary areas;
4. Use the calibrated unit flow factors and other pertinent demographic and employment growth data to project potential 2040 wastewater flows

## FLOW MONITORING PROGRAM AND DATA

Temporary sewer flow and rainfall monitoring were conducted at seven strategically selected locations to measure wastewater flows in the city sewer system for a four-week period from January 18, 2017 through February 17, 2017. Figure 2-1 shows the flow meter locations as well as the tributary areas monitored by each flow meter (meter basin). Table 2-1 summarizes the flow meters and tributary areas characteristics. Appendix A includes the flow monitoring report, which details site locations, flow meters used, and flow data for the entire monitoring period.

Dry weather flow conditions were evaluated in the hydraulic model (Chapters 3). Wet weather flow conditions are accounted for by designing sewers to carry peak dry weather flows at maximum sewer flow depth over diameter (d/D) ratios. The remainder of the pipe flow area is reserved to carry wet weather flows in addition to peak dry weather flows.





Figure 2-1: Temporary Flow Meter Locations

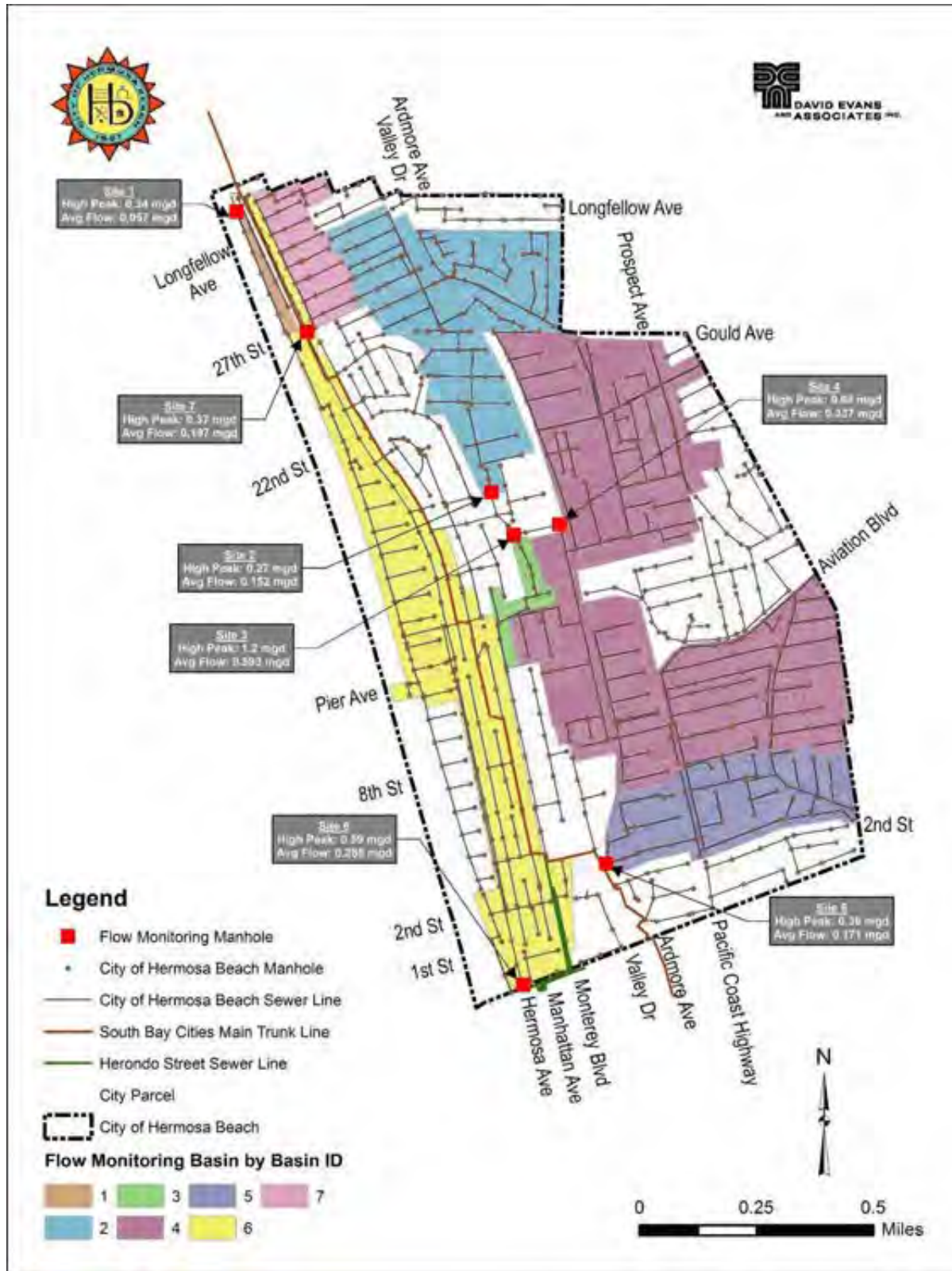


**Table 2-1: Flow Meter and Tributary Area Characteristics**

| Metering Site No. | Manhole GIS ID | Flow Meter Location | Pipe Size (inches) | Predominant Land Use   | Net Tributary Area (acres) |
|-------------------|----------------|---------------------|--------------------|------------------------|----------------------------|
| 1                 | 0011           | Upstream            | 8                  | Residential            | 4.14                       |
| 2                 | 0504D          | Upstream            | 15                 | Residential            | 97.57                      |
| 3                 | 0603           | Downstream          | 15                 | Residential/Commercial | 246.491                    |
| 4                 | 0604           | Downstream          | 12                 | Residential/Commercial | 237.23                     |
| 5                 | 0241           | Downstream          | 8                  | Residential/Commercial | 58.19                      |
| 6                 | 1001           | Downstream          | 24                 | Residential/Commercial | 131.59                     |
| 7                 | 0021           | Upstream            | 8                  | Residential            | 22.67                      |

It is more difficult to accurately estimate and model weekend flows for individual commercial, institutional and some industrial parcels and users because it is usually not known what businesses, offices and workplaces are open and which ones are closed or operating with lower wastewater generation. Conversely, on normal weekdays, all land uses are expected to generate wastewater at more quantifiable flow rates. Therefore, only weekday flow conditions were analyzed in the hydraulic model.

### **REPRESENTATIVE DIURNAL CURVES**

A representative diurnal curve was developed for each monitoring site based on the recorded weekday flows. The representative diurnal curves were used to calibrate the flows in the hydraulic model. The following guidelines were followed in the development of these representative diurnal curves:

1. The overall shape of the measured flows is captured;
2. The general timing and magnitude of the peak(s) are preserved;
3. The volume of the flow is within 5% of the recorded average daily flow.

The representative diurnal curves for the seven metering sites were hand drawn following the above guidelines.



**METER BASIN NO. 1**

Flow data for Meter Basin No. 1 is shown in Figure 2-2. Meter Basin No. 1 is located in the northwest corner of the City. The basin is the smallest with only 4 acres of drainage area. This basin is primarily residential; however, just downstream of the monitored site is a pump station that moves discharge up from the beach area and into a pipe system that discharges to the county system. This pump system disrupts the dry weather pattern that is typical of a residential area as can be seen in Figure 2-2.

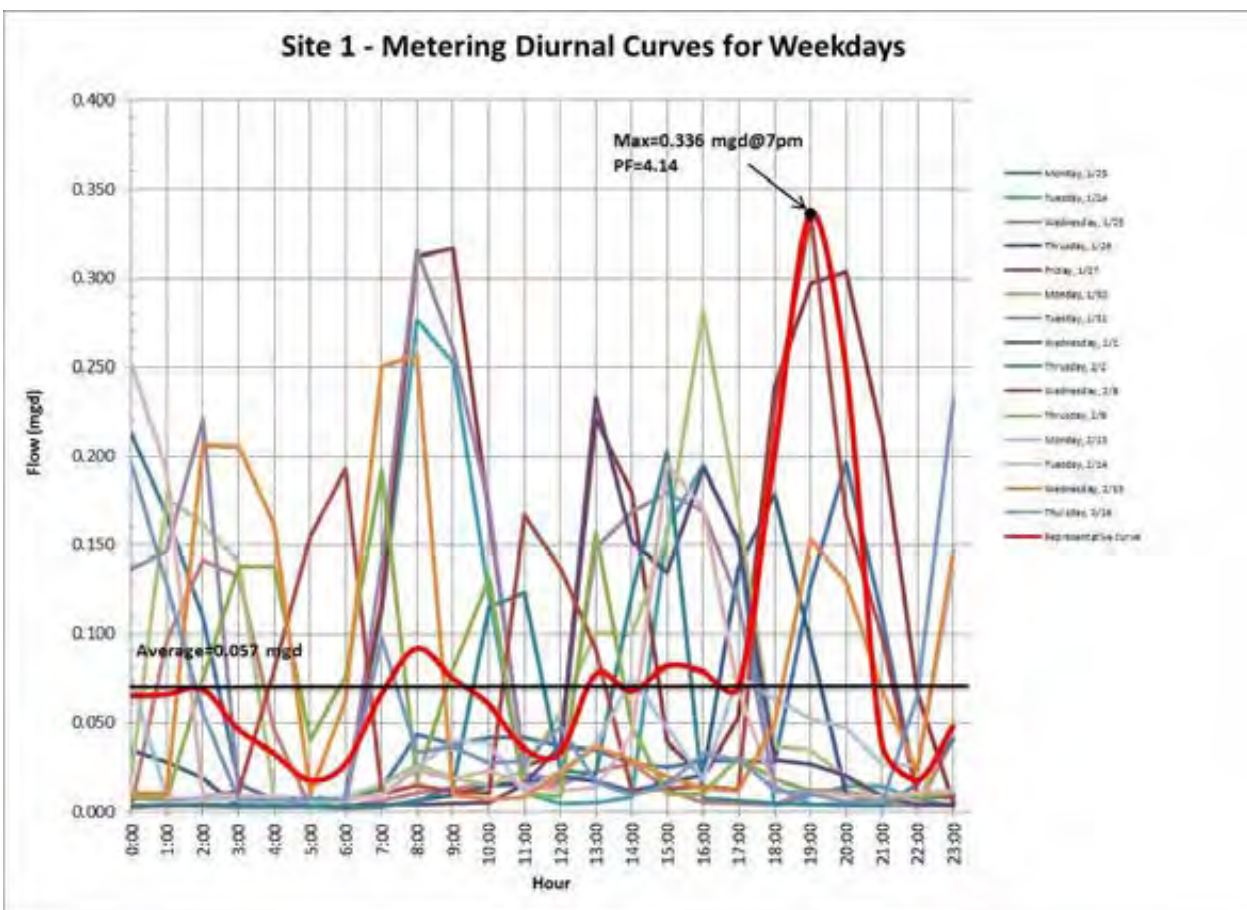
**Summary Data:**

High peak – 0.336 mgd at 7pm

Average flow – 0.057 mgd

Lowest use at 5am

**Figure 2-2: Metering and Representative Diurnal Curves for Site 1 (Weekday)**



**METER BASIN NO. 2**

Flow data for Meter Basin No. 2 are shown in Figure 2-3. Meter Basin No. 2 is located in the north area of the City. The basin totals nearly 98 acres of drainage area with the majority serving residential areas.

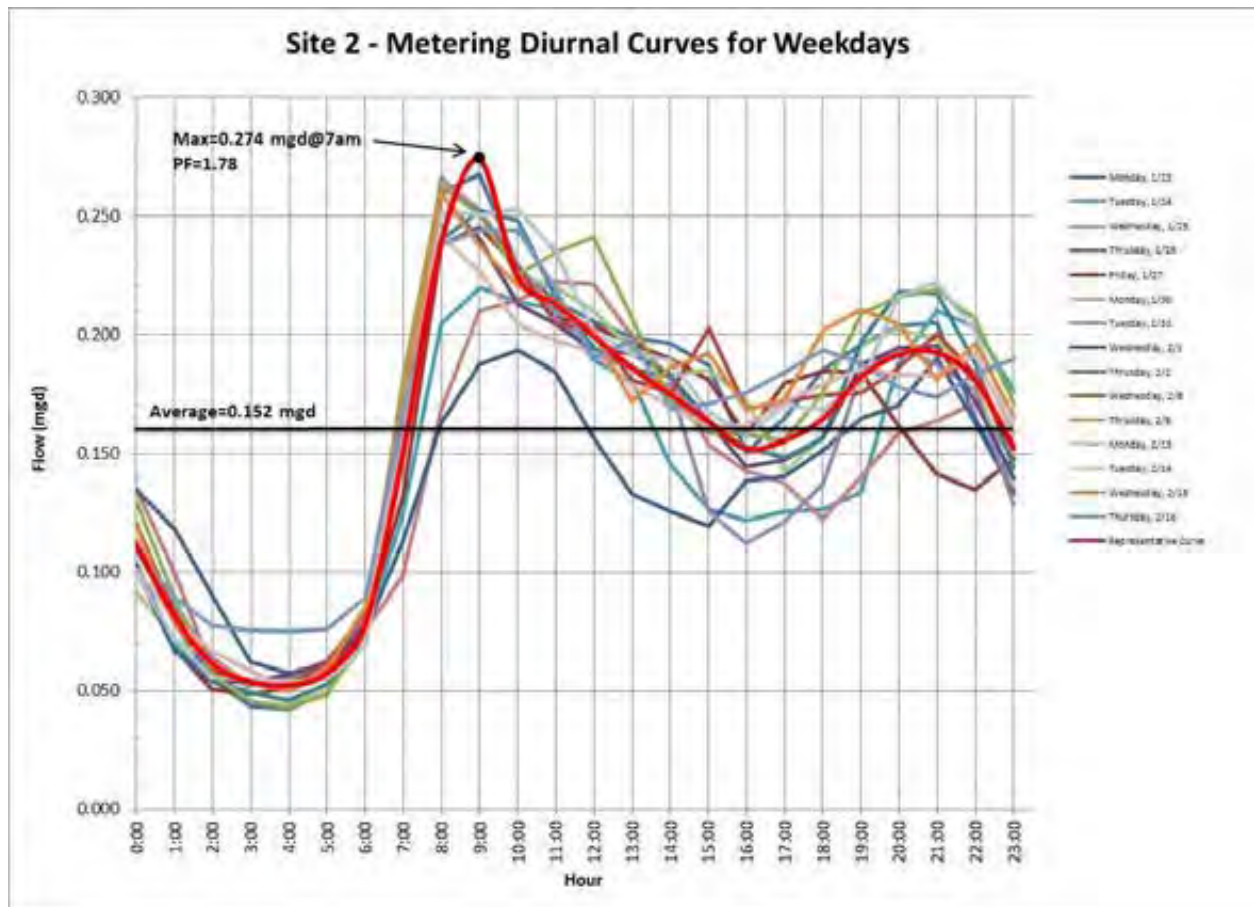
**Summary Data:**

High peak – 0.274 mgd at 7am

Average flow – 0.152 mgd

Lowest use at 4am

**Figure 2-3 Metering and Representative Diurnal Curves for Site 2 (Weekday)**





**METER BASIN NO. 3**

Flow data for Meter Basin No. 3 is shown in Figures 2-4. Meter Basin No. 3 is located in the central area of the City and totals 246 acres. The basin contains a mix of residential and commercial uses.

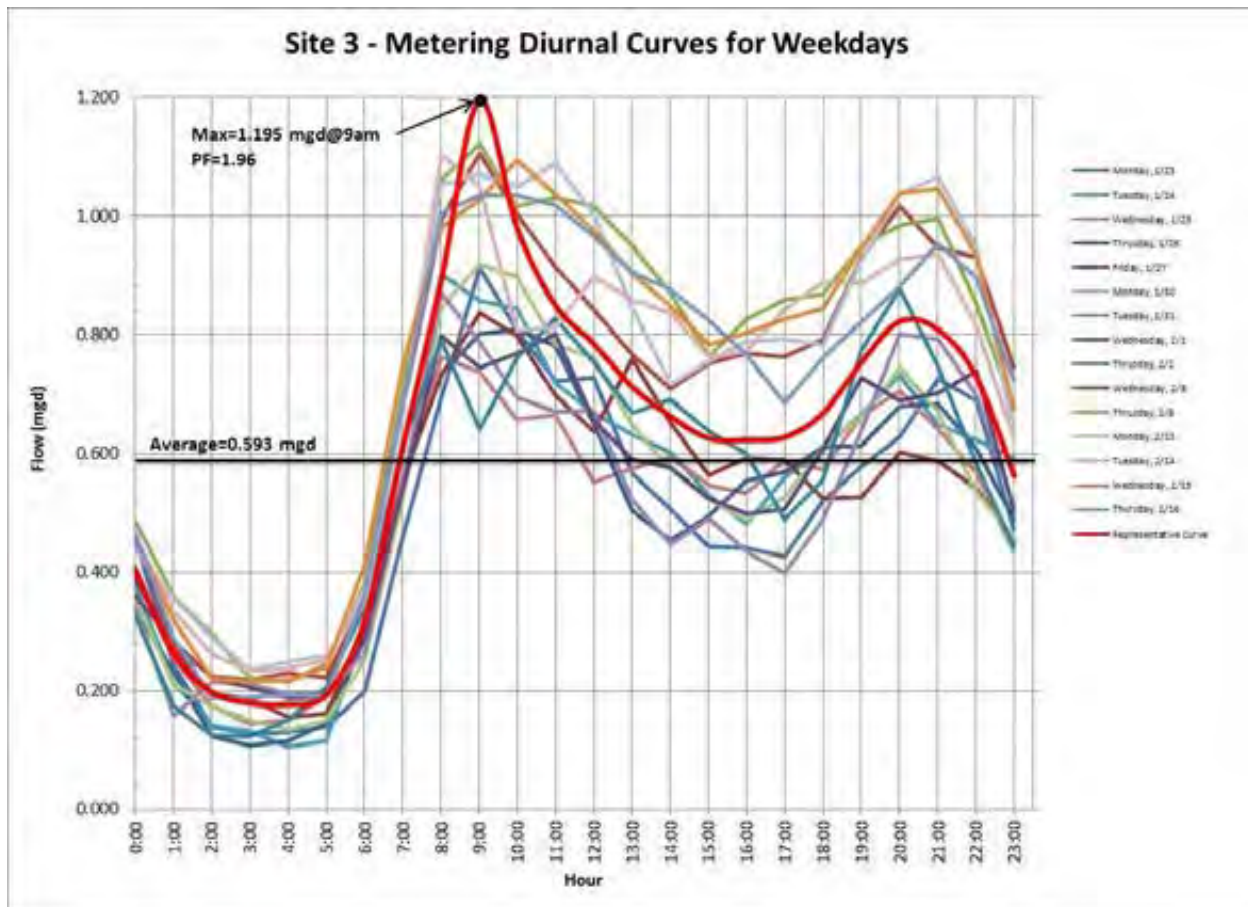
**Summary Data:**

High peak – 1.195 mgd at 9am

Average flow – 0.593 mgd

Lowest use at 4am

**Figure 2-4: Metering and Representative Diurnal Curves for Site 3 (Weekday)**



**METER BASIN NO. 4**

Flow data for Meter Basin No. 4 is shown in Figure 2-5. Meter Basin No. 4 is located in the center area of the city and is a sub-basin to Basin No. 3 covering 237 acres. The basin contains a mix of residential and commercial uses.

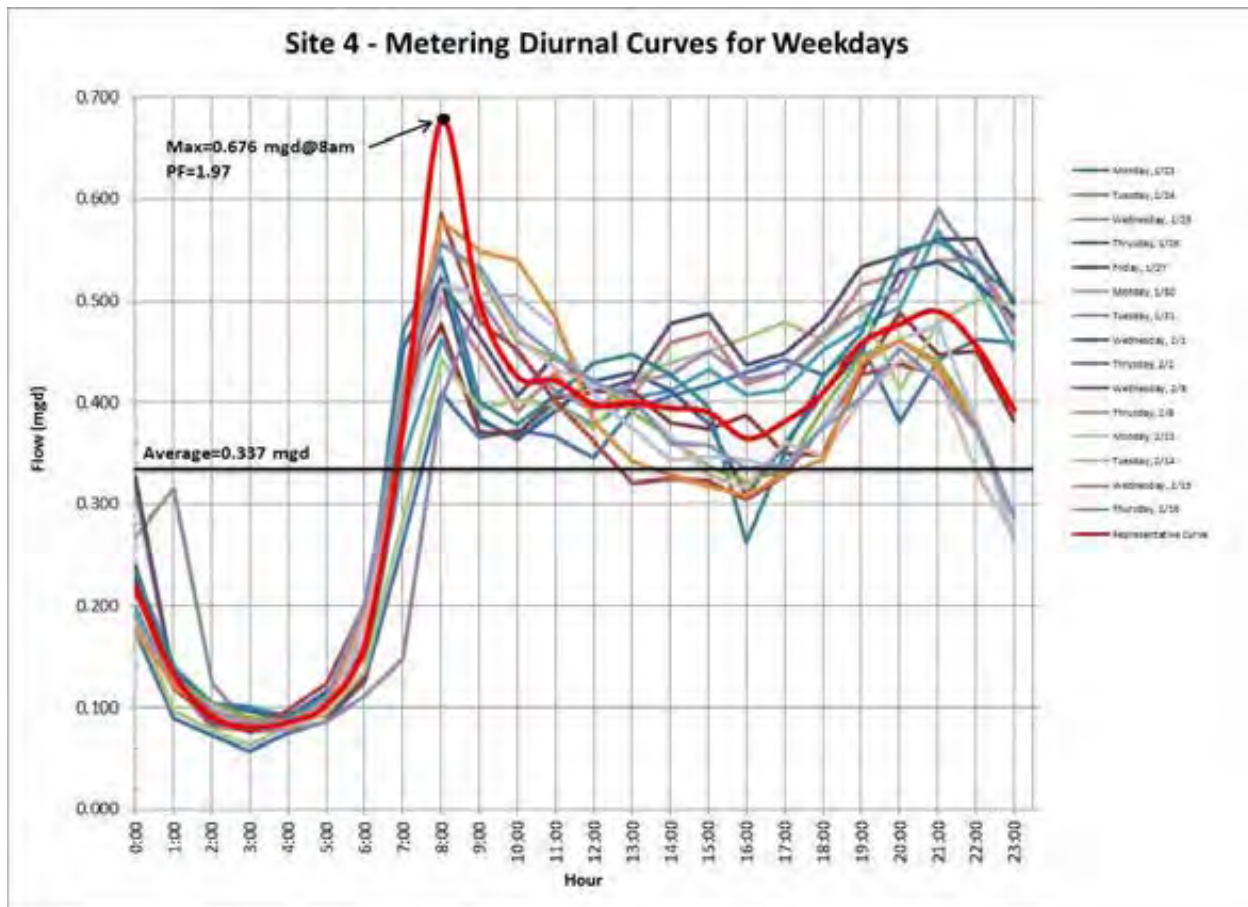
**Summary Data:**

High peak – 0.676 mgd at 8am

Average flow – 0.337 mgd

Lowest use at 3am

**Figure 2-5: Metering and Representative Diurnal Curves for Site 4 (Weekday)**



**METER BASIN NO. 5**

Flow data for Meter Basin No. 5 is shown in Figure 2-6. The basin is located in the southern end of the City and totals about 58 acres of drainage area. The basin is primarily residential with some commercial use areas.

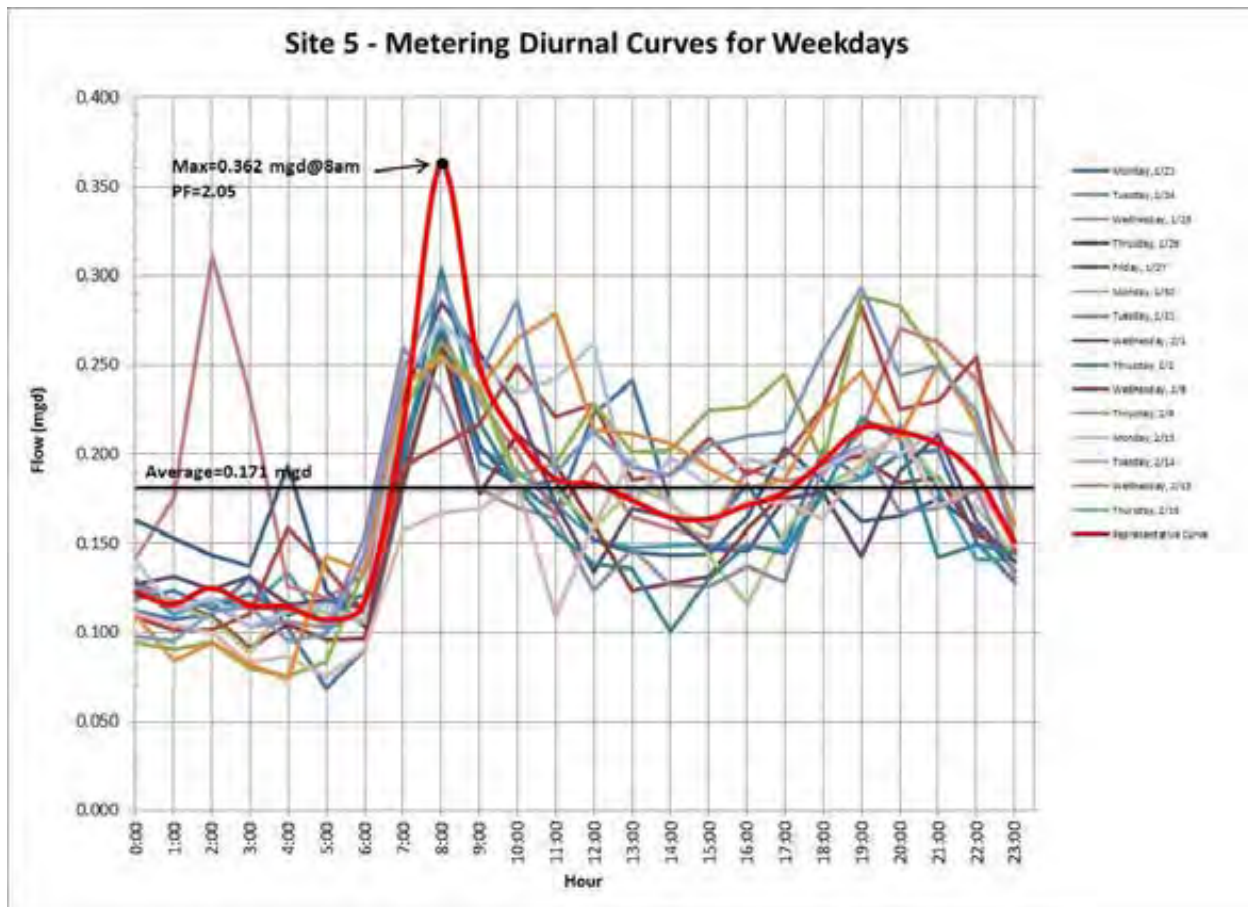
**Summary Data:**

High peak – 0.362 mgd at 8am

Average flow – 0.171 mgd

Lowest use at 5am

**Figure 2-6: Metering and Representative Diurnal Curves for Site 5 (Weekday)**



**METER BASIN NO. 6**

Flow data for Meter Basin No. 6 is shown in Figure 2-7. Meter Basin No. 6 is located along the western edge of the City and totals about 132 acres. The basin is a mix of residential and commercial uses.

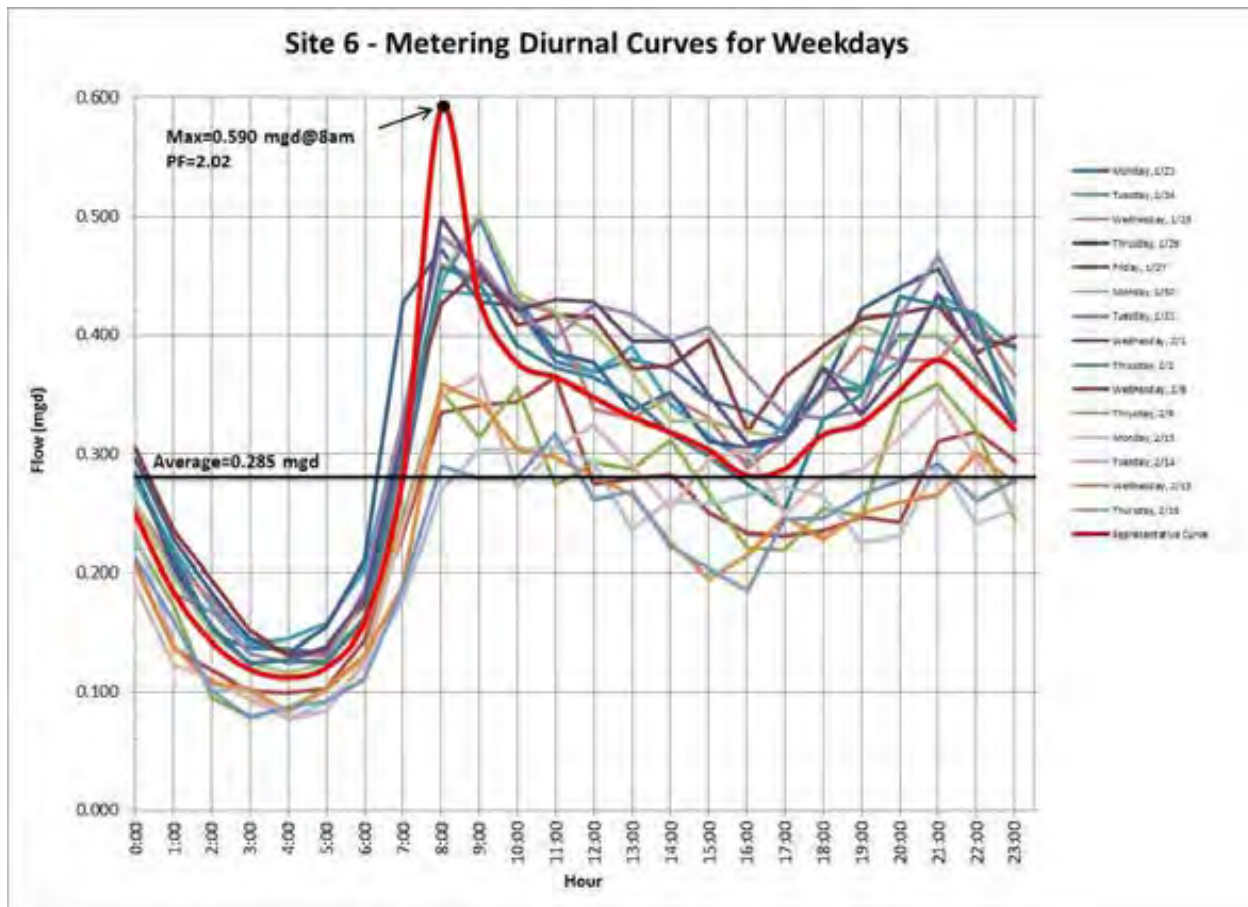
**Summary Data:**

High peak – 0.590 mgd at 8am

Average flow – 0.285 mgd

Lowest use at 4am

**Figure 2-7: Metering and Representative Diurnal Curves for Site 6 (Weekday)**





**METER BASIN NO. 7**

Flow data for Meter Basin No. 7 is shown in Figure 2-8. Meter Basin No. 7 is located in the northwestern part of the City and totals almost 23 acres. The basin has exclusively residential users.

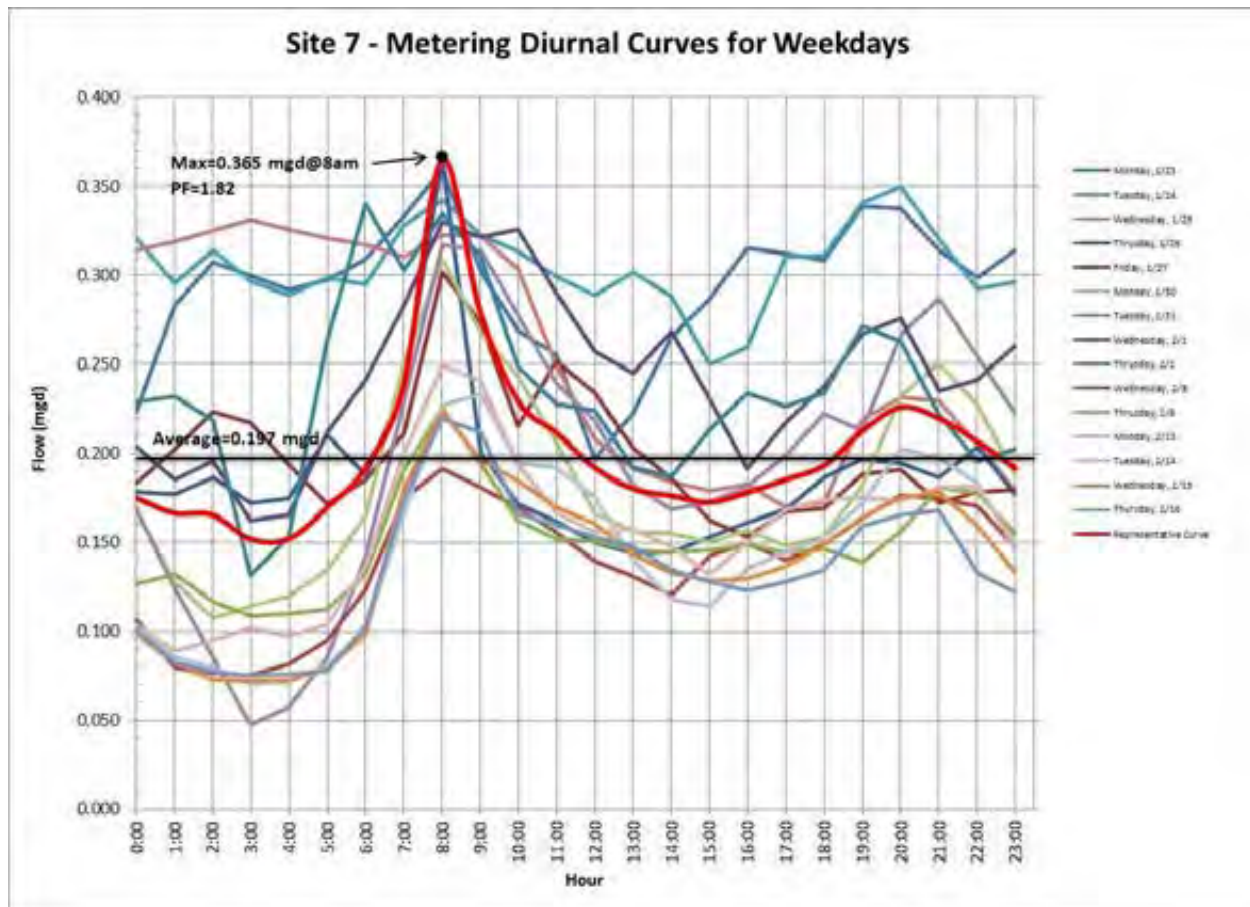
**Summary Data:**

High peak – 0.365 mgd at 8am

Average flow – 0.197 mgd

Lowest use at 3:30am

**Figure 2-8: Metering and Representative Diurnal Curves for Site 7 (Weekday)**



**METERING FLOW SUMMARY**

Table 2-2 shows the summary of the weekday dry weather flows that were measured during the flow monitoring period between January 18, 2017 and February 17, 2017. The net average daily flow values presented in Table 2-2 will be used as the target flows for unit flow factor calibration in Section 2.3.

**Table 2-2: Weekday Dry Weather Metering Flow Summary**

| Site No. | Measured Average Daily Flow (mgd) | Peak Hourly Flow (mgd) | Peaking Factor (Peak Hourly Flow/Average Daily Flow) | Timing of Peak Hourly Flow |
|----------|-----------------------------------|------------------------|------------------------------------------------------|----------------------------|
| 1        | 0.057                             | 0.34                   | 4.14                                                 | 7pm                        |
| 2        | 0.152                             | 0.27                   | 1.78                                                 | 7am                        |
| 3        | 0.593                             | 1.20                   | 1.96                                                 | 9am                        |
| 4        | 0.337                             | 0.68                   | 1.97                                                 | 8am                        |
| 5        | 0.171                             | 0.36                   | 2.05                                                 | 8am                        |
| 6        | 0.285                             | 0.59                   | 2.02                                                 | 8am                        |
| 7        | 0.197                             | 0.37                   | 1.82                                                 | 8am                        |

**UNIT FLOW FACTORS CALIBRATION**

The objective of this task is to develop and calibrate wastewater flow generation factors for the existing dry weather flow conditions for each unit of a given land use category on a basin-by-basin basis while matching with the net average daily flows that were measured in the field. For the purpose of this master plan, these factors are referred to as unit flow factors and are in the unit of gallons per day per acre (gpd/ac).

The entire process was performed mostly using GIS software and involves several sources of data provided by the City including parcels, general plan land uses, meter basins, and vacant lot locations. During the process, these vacant lots that typically do not contribute to wastewater flow in sewers were identified and excluded from the analysis.

Table 2-3 shows the analysis results including land uses and associated calibrated wastewater flow factors as well as the variance of calculated average flow from metered average flow for all meter basins. Overall, the calibration was satisfactory and the overall variance in flow compared with the field-measured data is within a few percent. It was found that the unit factors for residential land uses need to be varied between 1,500 gpd and 17,500 gpd throughout the monitoring areas before a successful calibration was achieved.



Table 2-3: Unit Flow Factors Calibration by Meter Basin

| Meter Basin No. | Land Use Category        | Acres | Unit Flow Factor (gpd/ac) | Notes                   | Wastewater Flow (gpd) | Variance from Field |
|-----------------|--------------------------|-------|---------------------------|-------------------------|-----------------------|---------------------|
| 1               | Commercial               | 0.0   | 3,500                     |                         | 0                     |                     |
|                 | HighDensityResidential   | 0.0   | 3,200                     |                         | 0                     |                     |
|                 | MediumDensityResidential | 3.3   | 17,500                    | Adjusted for basin only | 57,225                |                     |
|                 | OpenSpace                | 0.3   | 0                         |                         | 0                     |                     |
|                 | PublicInstitutional      | 0.0   | 800                       |                         | 0                     |                     |
|                 | Motor Home Park          | 0.0   | 1,500                     |                         | 0                     |                     |
|                 | Light Industrial         | 0.0   | 1,600                     |                         | 0                     |                     |
| <b>Total</b>    |                          | 3.6   |                           |                         | 57,225                | 0%                  |
| <b>Field</b>    |                          |       |                           |                         | 57,000                |                     |
| 2               | Commercial               | 3.4   | 3,500                     |                         | 11,900                |                     |
|                 | HighDensityResidential   | 7.3   | 3,200                     |                         | 23,424                |                     |
|                 | MediumDensityResidential | 52.5  | 2,200                     |                         | 115,500               |                     |
|                 | OpenSpace                | 11.9  | 0                         |                         |                       |                     |
|                 | PublicInstitutional      | 0.0   | 800                       |                         | 0                     |                     |
|                 | Motor Home Park          | 0.0   | 1,500                     |                         | 0                     |                     |
|                 | Light Industrial         | 0.0   | 1,600                     |                         | 0                     |                     |
| <b>Total</b>    |                          | 75.1  |                           |                         | 150,824               | -1%                 |
| <b>Field</b>    |                          |       |                           |                         | 152,000               |                     |
| 3               | Commercial               | 32.9  | 3,500                     |                         | 114,975               |                     |
|                 | HighDensityResidential   | 70.1  | 3,200                     |                         | 224,160               |                     |
|                 | MediumDensityResidential | 71.0  | 3,200                     | Adjusted for basin only | 227,264               |                     |
|                 | OpenSpace                | 28.5  | 0                         |                         | 0                     |                     |
|                 | PublicInstitutional      | 1.7   | 800                       |                         | 1,368                 |                     |
|                 | Motor Home Park          | 3.4   | 1,500                     |                         | 5,055                 |                     |
|                 | Light Industrial         | 0.8   | 1,600                     |                         | 1,296                 |                     |
| <b>Total</b>    |                          | 208.3 |                           |                         | 574,118               | -3%                 |
| <b>Field</b>    |                          |       |                           |                         | 593,000               |                     |



**CHAPTER 2 – EXISTING AND FUTURE WASTEWATER FLOWS**

| <b>Meter Basin No.</b> | <b>Land Use Category</b> | <b>Acres</b> | <b>Unit Flow Factor (gpd/ac )</b> | <b>Notes</b>            | <b>Wastewater Flow (gpd)</b> | <b>Variance from Field</b> |
|------------------------|--------------------------|--------------|-----------------------------------|-------------------------|------------------------------|----------------------------|
| <b>4</b>               | Commercial               | 31.4         | 3,500                             |                         | 109,970                      |                            |
|                        | HighDensityResidential   | 68.4         | 2,000                             | Adjusted for basin only | 136,820                      |                            |
|                        | MediumDensityResidential | 71.0         | 1,500                             | Adjusted for basin only | 106,425                      |                            |
|                        | OpenSpace                | 26.6         | 0                                 |                         | 0                            |                            |
|                        | PublicInstitutional      | 1.7          | 800                               |                         | 1,368                        |                            |
|                        | Motor Home Park          | 1.4          | 1,500                             |                         | 2,040                        |                            |
|                        | Light Industrial         | 0.8          | 1,600                             |                         | 1,296                        |                            |
| <b>Total</b>           |                          | 201.3        |                                   |                         | 357,919                      | 6%                         |
| <b>Field</b>           |                          |              |                                   |                         | 337,000                      |                            |
| <b>5</b>               | Commercial               | 7.6          | 3,500                             |                         | 26,600                       |                            |
|                        | HighDensityResidential   | 29.3         | 3,200                             |                         | 93,696                       |                            |
|                        | MediumDensityResidential | 18.9         | 2,200                             |                         | 41,668                       |                            |
|                        | OpenSpace                | 2.7          | 0                                 |                         | 0                            |                            |
|                        | PublicInstitutional      | 0.0          | 800                               |                         |                              |                            |
|                        | Motor Home Park          | 0.0          | 1,500                             |                         | 0                            |                            |
|                        | Light Industrial         | 0.6          | 1,600                             |                         | 960                          |                            |
| <b>Total</b>           |                          | 59.1         |                                   |                         | 162,924                      | -5%                        |
| <b>Field</b>           |                          |              |                                   |                         | 171,000                      |                            |
| <b>6</b>               | Commercial               | 17.1         | 3,500                             |                         | 59,815                       |                            |
|                        | HighDensityResidential   | 73.7         | 3,200                             |                         | 235,840                      |                            |
|                        | MediumDensityResidential | 2.8          | 2,200                             |                         | 6,116                        |                            |
|                        | OpenSpace                | 3.1          | 0                                 |                         | 0                            |                            |
|                        | PublicInstitutional      | 0.0          | 800                               |                         | 0                            |                            |
|                        | Motor Home Park          | 0.0          | 1,500                             |                         | 0                            |                            |
|                        | Light Industrial         | 0.0          | 1,600                             |                         | 0                            |                            |
| <b>Total</b>           |                          | 96.6         |                                   |                         | 301,771                      | 6%                         |
| <b>Field</b>           |                          |              |                                   |                         | 285,000                      |                            |



| Meter Basin No.    | Land Use Category        | Acres | Unit Flow Factor (gpd/ac) | Notes                   | Wastewater Flow (gpd) | Variance from Field |
|--------------------|--------------------------|-------|---------------------------|-------------------------|-----------------------|---------------------|
| 7                  | Commercial               | 0.6   | 3,500                     |                         | 2,240                 |                     |
|                    | HighDensityResidential   | 11.9  | 10,500                    | Adjusted for basin only | 124,530               |                     |
|                    | MediumDensityResidential | 2.1   | 2,200                     |                         | 4,708                 |                     |
|                    | OpenSpace                | 0.0   | 0                         |                         | 0                     |                     |
|                    | PublicInstitutional      | 0.0   | 800                       |                         | 0                     |                     |
|                    | Motor Home Park          | 0.0   | 1,500                     |                         | 0                     |                     |
|                    | Light Industrial         | 0.0   | 1,600                     |                         | 0                     |                     |
| <b>Total</b>       |                          | 14.6  |                           |                         | 131,478               | -1%                 |
| <b>Field</b>       |                          |       |                           |                         | 132,700               |                     |
| <b>Grand Total</b> |                          | 658.6 |                           |                         | 1,720,710             | 0%                  |
| <b>Total Field</b> |                          |       |                           |                         | 1,727,700             |                     |

Table 2-4 shows the final calibrated per-acre unit flow factors for the various land use categories. For modeling purposes, each land use was designated as either residential or commercial to distinguish between two general diurnal flow patterns. Table 2-4 also shows these designations.

**Table 2-4: Calibrated Unit Flow Factors**

| Land Use Category          | Average GPD/Acre | Model Designation |
|----------------------------|------------------|-------------------|
| High Density Residential   | 3,200            | Residential       |
| Medium Density Residential | 2,200            | Residential       |
| Commercial                 | 3,500            | Commercial        |
| Institutional              | 800              | Commercial        |
| Light Industrial           | 1,600            | Commercial        |
| Mobil Home Park            | 1,500            | Residential       |
| Open Space                 | 0                | Commercial        |

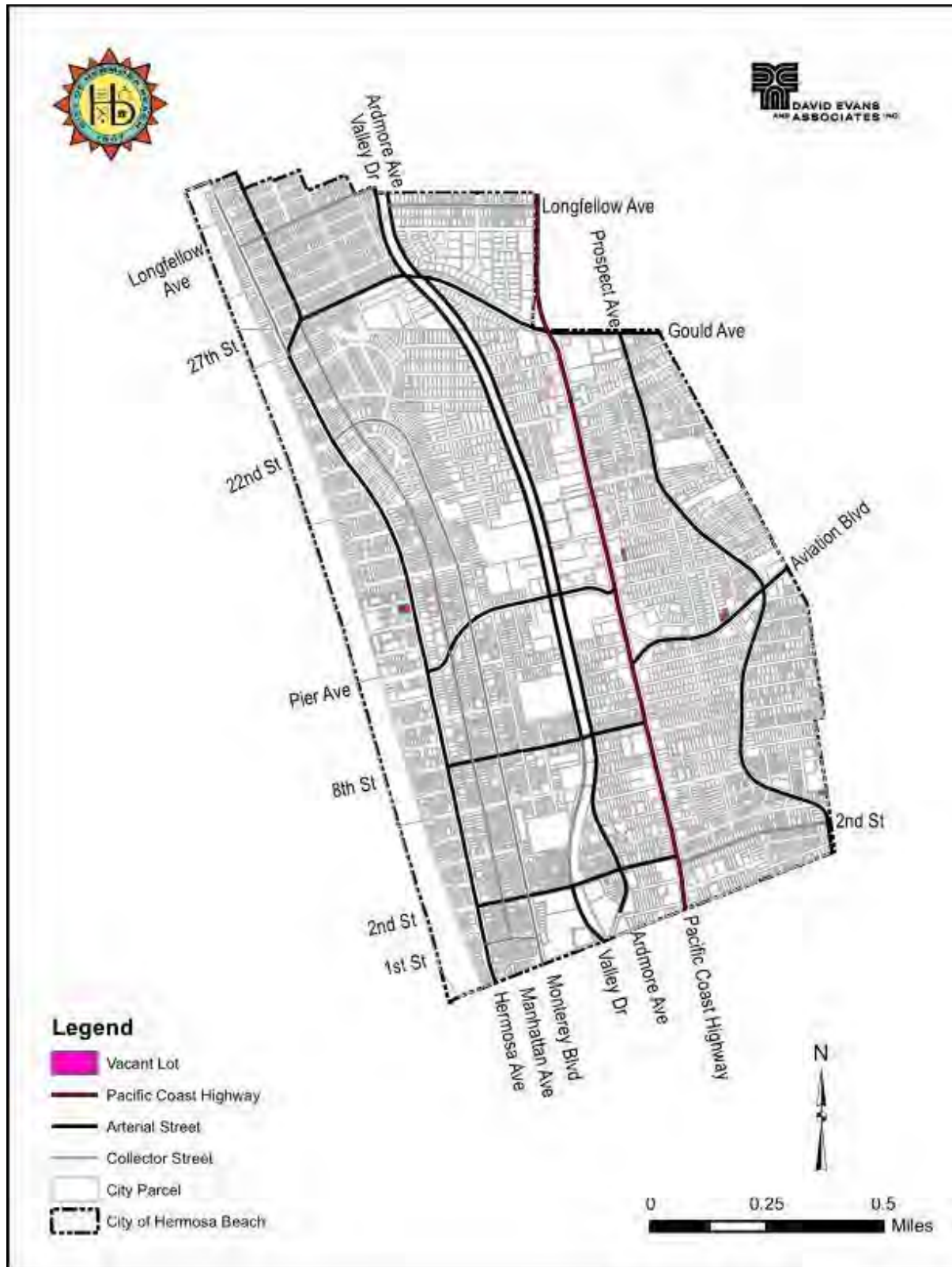


## 2040 WASTEWATER FLOW PROJECTION

The City is largely built out and very little population change is anticipated. Year 2040 flows are determined by adding the projected built-out flows from the currently vacant lots to the existing flow. Figure 2-22 shows that there are only four vacant lots identified as available for potential new construction. The projected flow from these areas is small relative to the existing flows, so it is assumed that future condition flows are negligible and will not add enough flow to trigger new CIP projects additional to those listed in Chapter 6 for existing conditions.



Figure 2-9: Vacant Lots Assumed Built-Out for Future Condition Flow





# CHAPTER 3 HYDRAULIC MODEL AND CAPACITY ANALYSIS

## MODEL DEVELOPMENT

### MODEL SOFTWARE

Wastewater management modeling software InfoSewer software as manufactured by Innovyze, Inc. was used to develop the hydraulic model of City's sewer collection system in order to evaluate hydraulic conditions, identify hydraulic deficiencies and recommend system improvements. The computation engine of InfoSewer is capable of performing simulations in both steady state and extended period modes and generating backwater hydraulic profiles. For this project, extended period simulation and backwater analysis were performed using InfoSewer to better mimic hydraulic conditions in the field.

### DATA

The City has provided various resources that were either used as direct data input for the hydraulic model or as reference information for the Master Plan. Table 3-1 shows these data sources.

**Table 3-1: Data Sources**

| Format                                                     | Item                                                       |
|------------------------------------------------------------|------------------------------------------------------------|
| GIS Format<br>(ArcGIS file<br>geodatabase or<br>shapefile) | Pump station Layer                                         |
|                                                            | Manhole elevations from record plans and field survey data |
|                                                            | SBC layer                                                  |
|                                                            | Manhole layer                                              |
|                                                            | Sewer lines layer                                          |
|                                                            | CCTV grades layer                                          |
|                                                            | General plan layer                                         |
|                                                            | Coastal zone layer                                         |
|                                                            | Parcel layer                                               |
|                                                            | City Boundary layer                                        |
|                                                            | City Zoning layer                                          |
| PDF File                                                   | Street layer                                               |
|                                                            | General Plan Map, September 2014                           |
|                                                            | Sewer System Map                                           |
|                                                            | Street Sweeping Schedules                                  |
| Excel File                                                 | Zoning Map, September 2014                                 |
|                                                            | CCTV Data Sets                                             |



The hydraulic model was built within the InfoSewer platform using the data provided by the City. This section discusses the various details in the hydraulic model development processes starting from sewer network development to wastewater flow distribution.

### **SEWER NETWORK DEVELOPMENT**

The geometry and physical data of the existing sewer system was originally provided in GIS format including a sewer main layer, manhole layer, and pump station layer. A geometric network was developed in GIS based on these layers.

A geometric network was used to verify the connectivity of links (sewer mains) and nodes (manholes and cleanouts). Connectivity issues were identified in the geometric network and sewer geometry was adjusted where necessary to resolve the identified connectivity issues.

The connected sewer network was then imported directly from the geometric network into the InfoSewer platform. The developed InfoSewer model includes all City gravity sewers ranging from 6-inch to 24-inch pipes but excludes all service laterals.

### **PIPE FRICTION FACTORS**

Friction occurs when a liquid flows over a pipe surface. The friction resists and retards the flow and causes the flow depth to increase. The magnitude of the resistance depends on the pipe material, the types of pipe joints, and the age of the pipe. Pipes generally become rougher with age. Bell and spigot joints associated with vitrified clay pipe (VCP) have more friction than joints that are more seamless such as a plastic slip liner.

Friction for sewer pipe is typically measured using Manning's "n" coefficients. Friction increases with higher n values. VCP is less smooth and also degrades more over time. The bell and spigot joints of VCP also contribute to a higher friction coefficient. New VCP (including the joints) has an n value of approximately 0.011 and the n value increases to 0.013 after 20 years. The VCP pipes with plastic liners associated with trenchless pipe rehabilitation methods such as cured-in-place pipes (CIPP) may have lower n values.

The actual pipe material might not be completely relevant in determining actual pipe friction. Some research studies have shown that a slime layer eventually builds up on any municipal sanitary sewer pipe surface and that slime layer essentially becomes the pipe surface. These studies have indicated that the average Manning's n value for any sewer pipe material with a slime layer is 0.013. Based on the GIS, a large percentage of the City sewers are over 50 years old. To be conservative, a universal Manning's n value of 0.015 was used to account for other minor losses and to hydraulically evaluate all sewers in this Master Plan.

### **AVERAGE FLOW DISTRIBUTION**

After the unit flow factors were developed and calibrated as discussed in Chapter 2, each parcel was assigned a unit flow factor based on its land use category and the resultant average wastewater flow was then calculated by multiplying the surface area and the corresponding unit flow factor.

The parcels were converted from a polygon layer to point layer. Subsequently, each parcel point was linked to the closest pipe and the wastewater flow was transferred to the closest pipe's upstream manhole in the hydraulic model.



**DIURNAL CURVES ASSIGNMENT**

For modeling the diurnal variation in flow, the land uses were grouped into two “diurnal curve” categories including one for all residential uses and another for all non-residential uses based on their common wastewater generation nature. For modeling purposes, the non-residential uses are labeled as “commercial.” Table 3-2 summarizes the diurnal curves and the associated groups of land use categories.

**Table 3-2: Diurnal Curves and Land Uses**

| <b>Diurnal Curve Category</b> | <b>Land Use Category</b>                                                         |
|-------------------------------|----------------------------------------------------------------------------------|
| Residential                   | High Density Residential<br>Medium Density Residential<br>Mobil Home Park        |
| Commercial                    | Commercial<br>Light Industrial<br>Institutional<br>Public/Semi-Public Open Space |

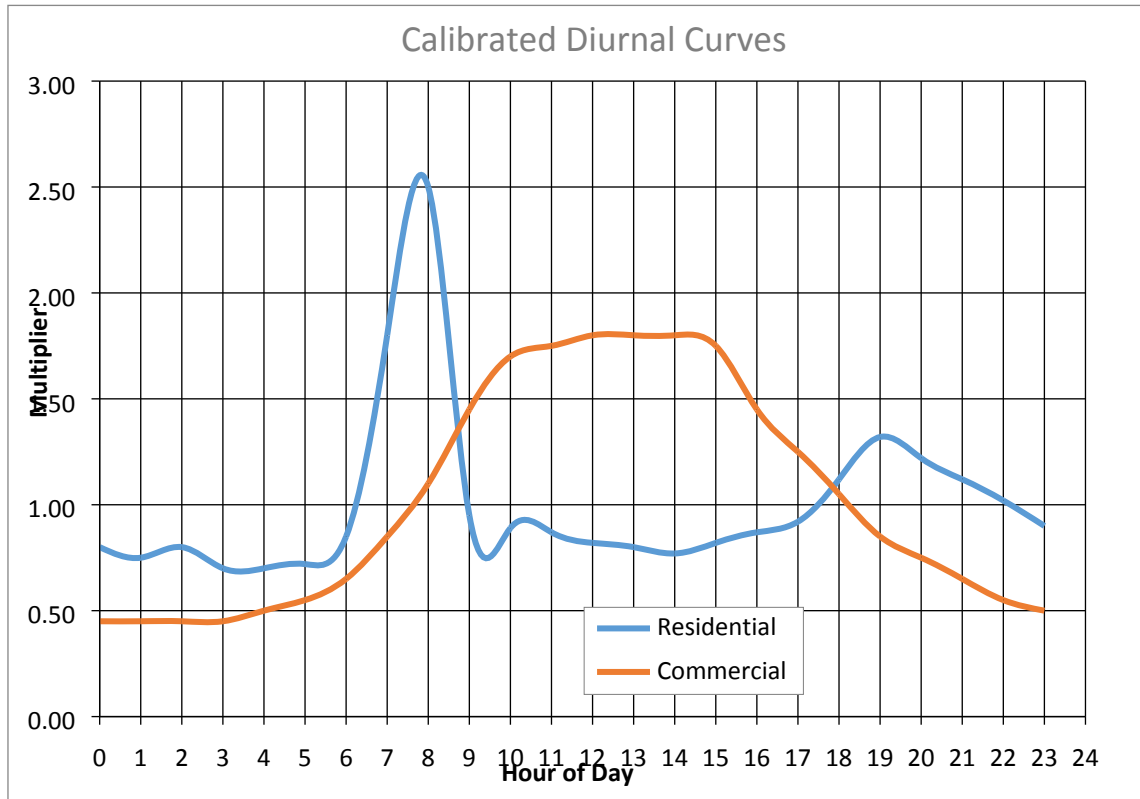
**BOUNDARY CONDITIONS**

All the outfalls in the model were modeled as free outfalls, assuming no backwater effects from the downstream Los Angeles trunk sewers.

**MODEL CALIBRATION**

After the hydraulic model was built in InfoSewer, model calibration was performed to ensure the hydraulic model is producing similar hydrographs at the seven temporary metering sites. Figure 3-1 shows the diurnal curves that were calibrated and used in the InfoSewer model.



**Figure 3-1: Calibrated Diurnal Curves**

The residential curve is primarily extracted from the measured flow data at meter site No. 5 with an adjusted and higher peaking factor of 2.5 at about 8 am to account for flow attenuation effect that was embedded in the measured flow data. The commercial curve was initially developed from the metering data for other projects and was adjusted primarily with data from Sites 4, 5 and 6, which have commercial elements within each basin. The peaking factor for the commercial curve is 1.8 occurring at about 1 pm.

Site 1 was disregarded for calibration because it is influenced by the pump station just downstream of the data collection site and therefore does not represent diurnal patterns for that basin. Site 3 data was collected just downstream of Site 4 and therefore disregarded as being redundant with Site 4. Table 3-3 summarizes the calibration results. Figures 3-2 through 3-6 show the comparison of the model results and the field measurement for each site graphically.

In general, the calibrated model was able to predict average flow and peak flow at the five outfalls near or within 15 percent with the exception of Site 7. Site 7 shows an exaggerated peak that will provide conservative results for this area. The possible causes for the variances of the model results include uncertainty about invert elevations in the original GIS, instrument errors associated with the metering equipment and the underlying assumptions in the model software.



**Table 3-3: Calibration Summary**

| Site No. | GIS Manhole ID | MH Address          | Sensor Location | Pipe Size (in) | Metering Data  |                 | Model Results  |                 | Variance     |               |
|----------|----------------|---------------------|-----------------|----------------|----------------|-----------------|----------------|-----------------|--------------|---------------|
|          |                |                     |                 |                | Avg Flow (mgd) | Peak Flow (mgd) | Avg Flow (mgd) | Peak Flow (mgd) | Avg Flow (%) | Peak Flow (%) |
| 2        | 0504D          | Powers St           | Upstream        | 15             | 0.152          | 0.27            | 0.149          | 0.31            | -2%          | 15%           |
| 4        | 0604           | Valley Dr           | Downstream      | 12             | 0.337          | 0.68            | 0.371          | 0.62            | 10%          | -8%           |
| 5        | 0241           | Valley Dr           | Downstream      | 8              | 0.171          | 0.36            | 0.162          | 0.34            | -5%          | -7%           |
| 6        | 1001           | Hermosa Ave         | Downstream      | 24             | 0.285          | 0.59            | 0.308          | 0.56            | 8%           | -5%           |
| 7        | 0021           | 27 <sup>th</sup> St | Upstream        | 8              | 0.197          | 0.37            | 0.186          | 0.43            | -6%          | 17%           |

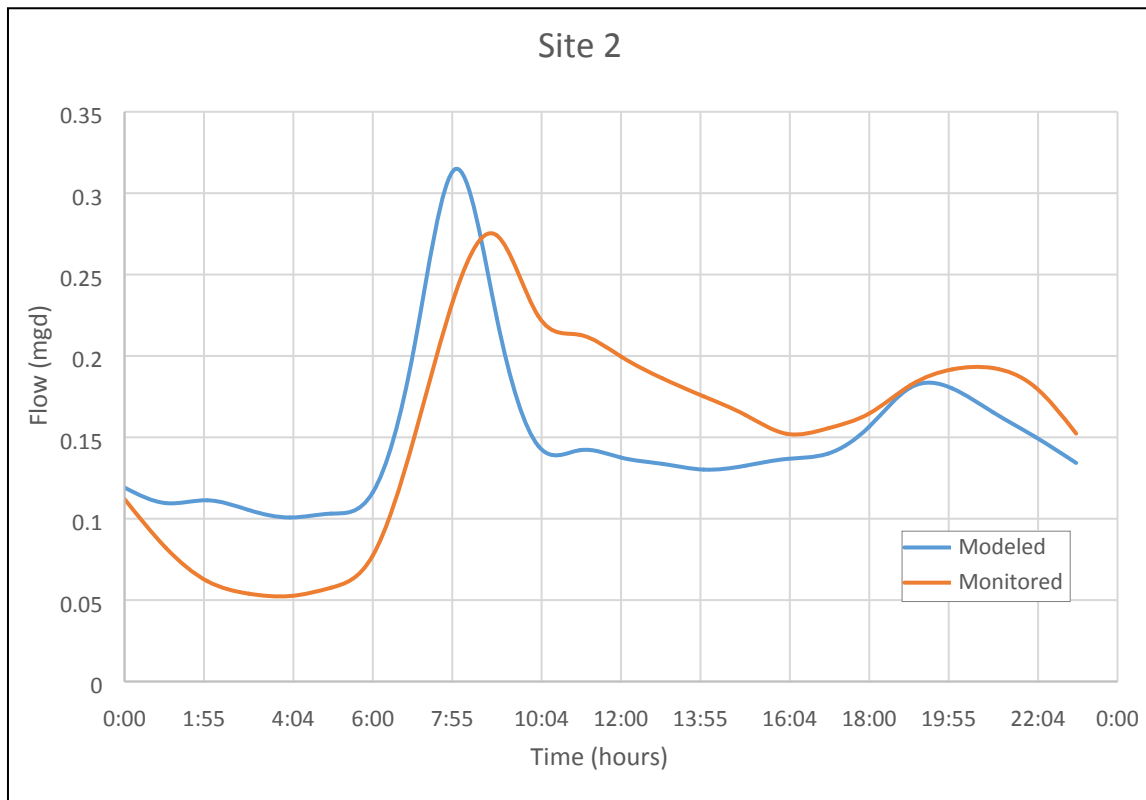
**Figure 3-2: Model Calibration Results (Site 2)**

Figure 3-3: Model Calibration Results (Site 4)

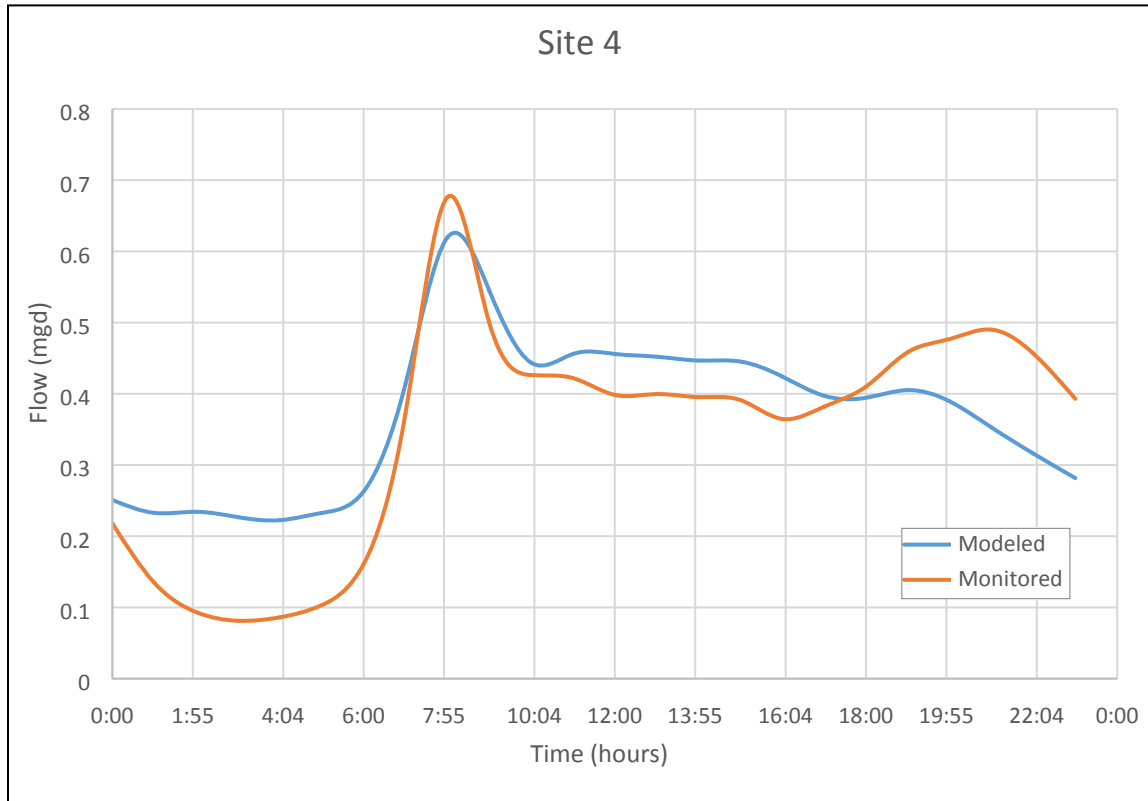


Figure 3-4: Model Calibration Results (Site 5)



Figure 3-5: Model Calibration Results (Site 6)

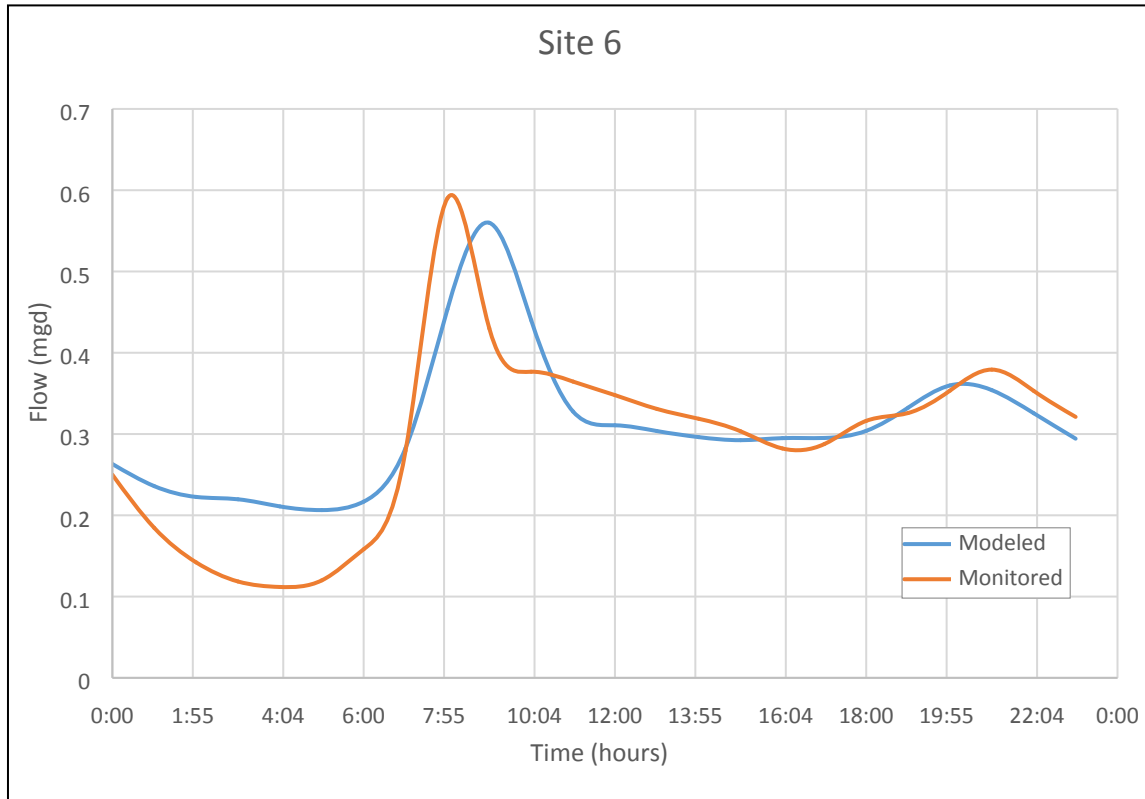
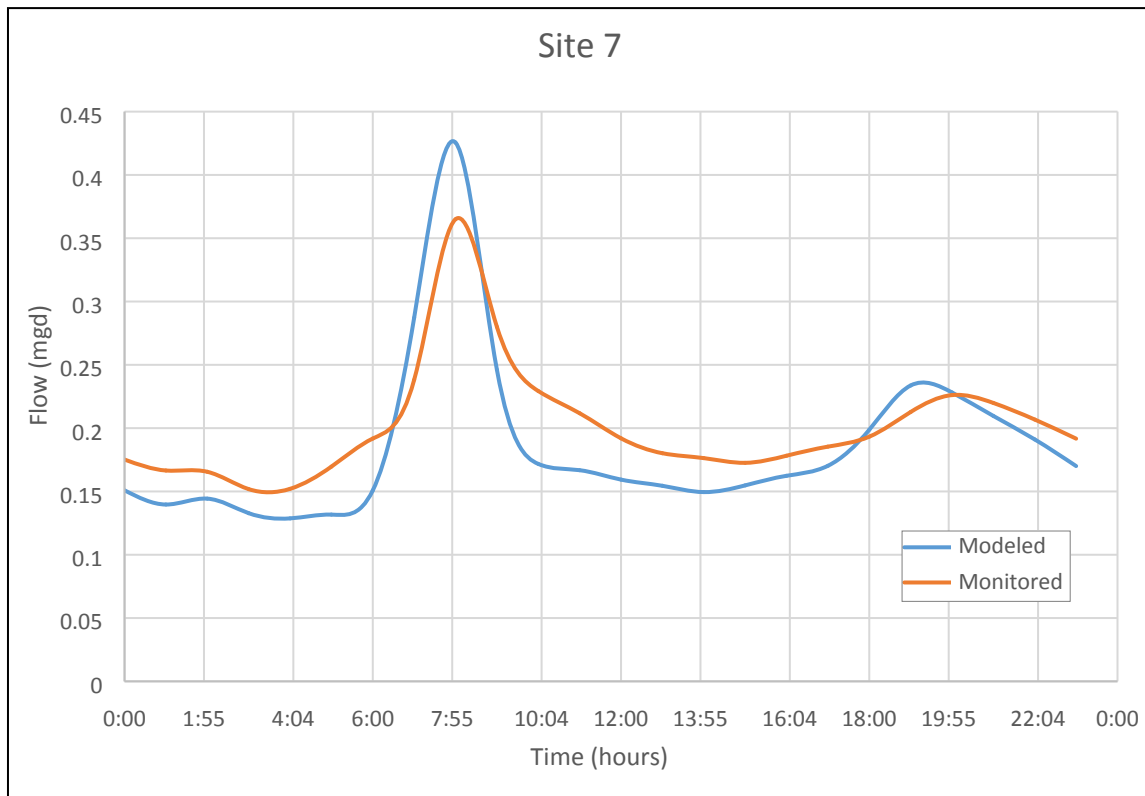


Figure 3-6: Model Calibration Results (Site 7)





## CAPACITY CRITERIA

Criteria were established to determine adequacy of existing sewers and to size new sewers in terms of their hydraulic capacity while minimizing the likelihood of a sewer overflow. The hydraulic capacity criteria were developed based on maximum depth to diameter (d/D) ratios under dry weather flow (DWF) conditions in the calibrated hydraulic model.

For identifying deficiency of existing sewers, the maximum allowable d/D ratio to convey peak dry weather flow (PDWF) was set to 0.75 for all sizes of sewers. The deficiency criteria of triggering the need for a project often differ from the criteria for sizing new sewers, which are typically more conservative.

For sizing new proposed sewers, a maximum allowable d/D ratio of 0.5 was applied to 12-inch and smaller sizes and a d/D ratio of 0.65 was used for 15-inch. They are consistent with the typical sewer sizing criteria published by agencies in the region. A lower d/D threshold is typically applied to smaller pipes because they are more likely to experience greater variations in PDWF and blockages due to debris, etc. The remaining capacity of the proposed sewers is reserved for potential infiltration and inflow during rain events.

Table 3-4 summarizes the criteria that were used for evaluating capacity of the sewers in this Master Plan. Although the existing sewers with a d/D ratio between 0.5 and 0.75 were not identified as deficient and recommended for upsizing, future continuing monitoring of these sewers is recommended.

**Table 3-4: Sewer Capacity Criteria**

| Purpose                                             | Pipe Size                        | Maximum Allowable d/D |
|-----------------------------------------------------|----------------------------------|-----------------------|
| Identifying Deficiency of Existing Sewer under PDWF | Any size                         | 0.75                  |
| Sizing of Proposed Sewers under PDWF                | 12-inch and smaller <sup>1</sup> | Between 0.5 and 0.65  |
|                                                     | 15-inch and larger <sup>2</sup>  | Between 0.65 and 0.75 |

Notes:

1. At a d/D of 0.5, the remaining capacity of circular pipes is 50 percent. In some areas where the slope of existing sewers is relatively flat, the threshold was relaxed to allow d/D up to 0.65 in lieu of recommending a larger size for the entire project.
2. At a d/D of 0.65, the remaining capacity of circular pipes is about 25 percent. In some areas where the slope of existing sewers is relatively flat, the threshold was relaxed to allow d/D up to 0.75 in lieu of recommending a larger size for the entire project.



## ANALYSIS RESULTS – EXISTING CONDITIONS

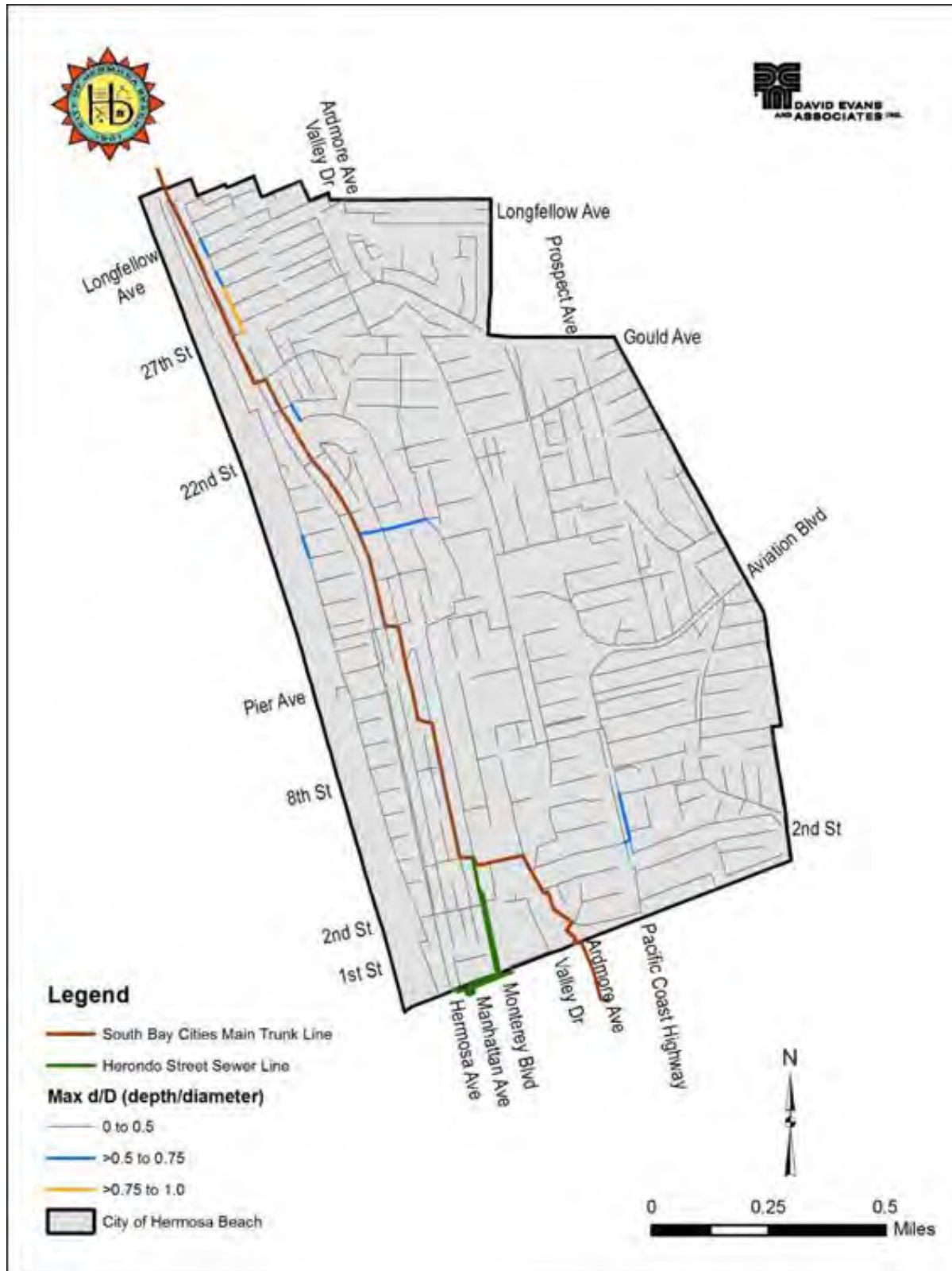
In order to determine the adequacies of the existing city sewers for conveying the PDWF, simulations were performed to identify locations of hydraulic capacity deficiencies in the system. The model results of the capacity analysis, expressed as maximum d/D ratios for the existing DWF conditions, are shown in Figure 3-7. The red (d/D > 0.75) pipes shown in Figure 3-7 indicate deficient line segments based on the aforementioned capacity criteria.

As shown in Figure 3-7, the majority of the modeled pipes are less than 50 percent full under the peak DWF conditions. There are five segments that show a peak d/D ratio between 0.5 and 0.75. These segments should be inspected regularly to insure that pipe capacity remains adequate. One segment exceeds a d/D of 0.75 and is therefore, recommended for upsizing. Details of the recommended CIP to replace this segment is provided in Chapter 6.

Appendix C shows the d/D ratios for the upstream and downstream ends of all the pipes in the hydraulic model under existing flow conditions.



Figure 3-7: Maximum d/D Ratios under Existing DWF Conditions



# CHAPTER 4 SEWER REHABILITATION METHODS

## OVERVIEW

Aged and defective sanitary sewers should be replaced periodically as part of an on-going investigation and rehabilitation program to both ensure structural integrity of infrastructure components and to help prevent wet-weather inflow and infiltration (I/I) into the collection system through system defects such as cracked and broken pipe. This chapter discusses various strategies and methods to rehabilitate sanitary sewers and develops planning-level unit costs that will be used in this Master Plan to develop project costs in the recommended Capital Improvement Program.

## SANITARY SEWER REHABILITATION METHODS

Sewers need rehabilitation if they are in a deteriorated condition and/or they need additional hydraulic capacity. In the past, the most common construction approach to rehabilitating a sewer for either reason was sewer replacement via open cut excavation. However, over the past 30 years, sewer rehabilitation via trenchless technology has become more practical and less expensive than traditional open cut excavation if the sewer is only in a deteriorated condition, i.e. does not need increased hydraulic capacity. There are also several trenchless methods now available that are also more practical and in some cases less expensive when the sewer also needs increased hydraulic capacity.

With trenchless technology, the surface and ground depth in the vicinity of a sewer to be rehabilitated is significantly less disturbed compared with open cut excavation. Sewer rehabilitation via trenchless technology avoids most conflicts with adjacent and crossing utilities and pipelines, and also avoids most surface disruptions to traffic, property, and the surrounding environment in general. Most trenchless technologies utilize the existing sewer as a host pipe and utilize existing manholes to conduct the rehabilitation. In some cases, pits must be excavated to accommodate a trenchless technology.

These trenchless technologies are less expensive than sewer replacement via open cut excavation. However, in utilizing the existing sewer as a host pipe, the sewer diameter is decreased, not increased. The new sewer lining might offer slightly better capacity resulting from less pipe friction, but because a slime layer eventually builds up on any sewer pipe surface, this increased capacity might not be significant.

### SEWER REHABILITATION VIA PIPE REPLACEMENT

In order to increase hydraulic capacity significantly, the sewer can be replaced with a new larger sewer either by open cut excavation and/or bore and jack construction, or a new sewer can be constructed parallel to the existing sewer by either of these same two construction methods. Open cut excavation causes disruptions to the surface environment. As an alternative, bore and jack construction can be employed where two pits are excavated (a bore pit and a receiving pit), a steel casing is bored and jacked between the two pits, and the sewer is grouted inside the casing. The only excavation occurs at the bore pit and the receiving pit.

However, bore and jack construction is significantly more expensive than open cut excavation. For example, as average planning estimates, it might cost approximately \$200/linear foot (lf) to construct a 12-inch sewer by open cut excavation (including traffic control and pavement replacement, but not including project mobilization, flow bypassing, and lateral reconnection) and approximately \$1,000/lf to construct the same 12-inch sewer by bore and



jack construction. Because of the high cost, open cut excavation is typically employed. However, bore and jack construction is used to go below major road intersections where traffic cannot be disrupted, and below major surface obstructions such as railroad tracks, freeways, etc.

Directional drilling and microtunneling can also provide for trenchless construction of a new sewer. However, both methods are more expensive than bore and jack construction, and their benefits such as directional change are not needed to construct a sewer below a road or intersection in most cases.

In order to increase hydraulic capacity, the existing sewer can be replaced with a larger sewer, or a new sewer can be constructed in parallel with the existing sewer, which remains in service. If the existing sewer is also in a deteriorated condition and requires rehabilitation anyway, then it will be recommended in the Master Plan that the existing sewer be replaced with a new sewer. If the existing sewer is in good condition with very few defects and is relatively young, then it will be recommended in the Master Plan that the existing sewer be kept in service and a new parallel sewer be constructed in order to increase hydraulic capacity.

City sewers are constructed of VCP, PVC, and ACP pipe materials, which are all considered sturdy sewer pipe materials. However, any sewer constructed prior to 1950 will be recommended for replacement regardless of condition if the sewer requires additional hydraulic capacity.

Flow bypassing at an upstream manhole is required when replacing an existing sewer. Also, existing laterals must be serviced by a temporary pipeline while the new sewer is set in the trench and bedded. The existing laterals are connected as soon as a new sewer segment is bedded. An advantage to constructing a parallel sewer (relief sewer) is that the existing sewer is kept in service while the relief sewer is being constructed. Less flow bypassing is required. Additionally, sewer laterals on the side of the existing sewer away from the parallel sewer can remain connected to the existing sewer, or if they are to be connected to the new sewer, the connections can be made after the new sewer has been constructed.

### *PIPE BURSTING*

Another trenchless alternative for constructing a larger sewer is pipe bursting. Pipe bursting can be less expensive and faster than open cut construction, depending on extent, diameter, and the number of laterals within a particular pipe segment. Pipe bursting is accomplished by pulling a bursting device through the existing pipe. This device by virtue of its size or its radial expansion ability shatters the old pipe and forces the fragments into the surrounding soil. The new pipe is attached to the bursting device and is thus pulled into place as the device advances. An advantage of pipe bursting compared with other trenchless pipe rehabilitation is that the existing pipe can be upgraded with a completely new pipe of equal diameter or greater, thus maintaining or increasing the capacity of the line being rehabilitated. Also, the pipe is a complete structural replacement that functions independently of the original line. Flow bypassing is required with pipe bursting because the existing pipe is being replaced.

Installations are either continuous or sectional. In continuous installations, pipe materials such as high-density polyethylene (HDPE), PVC, and steel are connected or fused to form continuous strings of pipe. These strings are then installed over a length longer than the length of one individual pipe segment. In sectional installations, individual pipe sections are installed one section at a time. Continuous installation is preferred over sectional replacement, as it minimizes the stoppage of the product line during the burst, and requires less equipment to perform the installation.

A continuous installation is divided into lengths of pipe segments that the bursting equipment being used can burst based on the geometry and layout of the existing pipe being replaced. The length that can be burst is highly



dependent on the type of pipe being burst, degree of upsize, soil conditions, and geometry of the original installation. Access pits are excavated on each end of the pipe to be replaced. The pipe-bursting machine that pulls the bursting head is located in the machine pit. The new or product pipe and bursting head are inserted into the existing or host pipe at the insertion pit, which is located at the other end of the pipe.

Machine pits are typically 12-feet long by 6 to 8-feet wide, but can vary in size depending on the size and type of the pipe bursting equipment used. The insertion pit has a flat section and a sloped section that runs from the bottom of the pit to the ground surface. The length of the flat section is typically 12 times the outside diameter of the replacement pipe and the length of the sloped section is typically 2.5 times the depth.

Sections of the product pipe are fused or connected for a continuous installation. The end of the product string is attached to the bursting head, which is attached to the drive rod string, which is attached to the bursting machine in the machine pit. The bursting machine then pulls the drive string. As the bursting head advances, the host pipe is burst and the product line is simultaneously installed. Other bursting methods employ a pneumatic bursting head that “hammers” the pipe forward rather than being pulled. The static bursting system or pneumatic pipe bursting system employed must be capable of delivering the required bursting forces necessary to fragment the existing pipe, push the broken pieces into the ground, and simultaneously install the new HDPE replacement pipe.

The bursting force and equipment capacity of the pipe bursting equipment is a function of the replacement section, which is the length of pipe to be bursted and replaced between the machine pit and the installation pit. Longer replacement sections require larger-capacity equipment. The length of the replacement section is also a function of the geometry of the existing pipe to be replaced. Pipe bursting can accommodate only gradual horizontal curves. A replacement section must be terminated at a tight bend.

The depth of cover is important in pipe bursting especially when the existing pipe lies below an asphalt road because the bursting head can cause an upheaval (surface hump) of the asphalt surface if there is insufficient cover. The potential for upheaval is also a function of soil density. Less dense (softer) soils can absorb more of the uplifted soil and pipe fragments and this decreases the upheaval potential. The potential for upheaval is greater for ground covers less than 4 feet. This is typically not an issue with sanitary sewers as they are usually installed deeper than 4 feet.

Minor surface upheaval can be rectified by rolling down the hump with an adequately-sized road roller on a relatively hot day. Where the potential for upheaval exists, the Contractor can drill a relief bore hole above the host pipe to absorb the soil displacement caused by the bursting head, but this adds construction cost.

The sections of the HDPE pipe are fused together and the entire length of replacement pipe for a given replacement section is strung out directly behind the installation pit, i.e. a 300 lf replacement section would have 300 feet of pipe strung out behind the installation pit. Traffic control would be required for the installation pit and the pipe layout area behind the pit as well as at the machine pit. One lane of traffic or a bike lane would need to be closed down in these work areas.

Pipe installed within a steel casing via bore and jack construction cannot be replaced through pipe bursting because the steel casing does not allow sufficient space for pipe fragmentation. Concrete encasement may also preclude pipe bursting for that specific pipe segment depending on the thickness of the encasement. Utilities that are too close to the bursting “sphere of influence” would need to be relocated prior to bursting. Also, sewer laterals would have to be removed within the sphere of influence, and then reconstructed and connected to the new sewer.

For straight runs, pipe bursting can be implemented as a continuous installation through existing manholes. The manholes would then need to be rehabilitated and sealed after the bursting is complete. Pipe bursting can be



more cost effective than open cut excavation, if you have long sections of straight sewers that can accommodate long continuous installations. Often times pipe bursting can be faster than open cut construction because there is significantly less excavation and pavement replacement. Pipe bursting could conceivably be 20 to 25% faster than open cut construction depending on actual conditions.

However, if the sewer segments are in residential areas with many lateral connections, then the length of installation must be shortened, which adds construction time and cost. The shortened installation length and the cost to dig up and reconstruct laterals in the area of influence typically make open-cut excavation more cost effective in residential areas with many sewer laterals.

Earth Tool Company and Miller Pipeline Corp. are two of the manufacturers of pipe bursting equipment on the market. Earth Tool Company manufactures Hammerhead™ moles and various pipe-bursting products that are marketed through Vermeer dealerships located throughout the United States and internationally. Miller Pipeline Corp. manufactures the XPANDIT pipe bursting system.

### **SEWER REHABILITATION VIA TRENCHLESS TECHNOLOGY USING EXISTING PIPE AS HOST**

Cured-in-Place lining, segmental sliplining, spiral wound sliplining, and tight-fit lining are trenchless technologies that utilize the existing pipe as a host pipe in the pipe rehabilitation process. The liner of each of these systems can provide complete structural support, i.e. assume all dead, live, and construction loads as well as any surcharge pressures, independent of any structural support remaining in the host pipe. All of these technologies are typically less expensive than sewer replacement via open-cut excavation and via pipe bursting. However, the pipe flow area is reduced to some degree by a reduction in pipe diameter with each of these technologies.

With each of these trenchless technologies, the surface and ground depth in the vicinity of a sewer to be rehabilitated is significantly less disturbed compared with open cut excavation. These technologies avoid most conflicts with adjacent and crossing utilities and pipelines, and also avoids most surface disruptions to traffic, property, and the surrounding environment in general. Some of these trenchless technologies utilize existing manholes to conduct the rehabilitation. In some cases, pits must be excavated to accommodate liner insertion into the host pipe. These technologies are described as follows:

#### ***CURED-IN-PLACE PIPE LINING***

In the Cured-in-place pipe (CIPP) lining process, a liner composed of a fabric reconstruction tube impregnated with a thermosetting resin is inserted into the pipe to be repaired through an existing manhole, an excavated pit, or another entry point. The tube is either winched or inverted into place with water pressure. Injected steam or hot water cures the resin and shapes the tube into the form of the existing pipe. Application of heat hardens the resin after a few hours, forming a jointless inner pipe surface. The rehabilitation liner serves to repair the deteriorated structure of the existing pipe.

The lining process requires no excavation if existing manholes are available as insertion pits. The process can accommodate pipe bends up to 90 degrees. The pipe requires careful cleaning and video inspection prior to installation. Flow bypassing is required with CIPP because the existing pipe is rehabilitated.

Service laterals remain connected to the host pipe during the rehabilitation process, but the laterals are out of service until openings can be cut through the CIPP lining at the connection points. A camera with a cutting device is run through the lined pipe to reopen the laterals remotely. Dimples occur in the CIPP lining prior to curing that indicate the lateral connection points. With some other trenchless technologies such as sliplining with a rigid lining material, dimples do not occur, and the lateral locations must be surveyed as part of the pre-work video inspection





in order to map out the lateral locations. This makes lateral connection more efficient for CIPP relative to these other trenchless methods.

Several companies have developed CIPP systems and these systems vary in material type, coating type and method of construction. Most of the fabrics are made of woven or non-woven (needle punched) polyester. Other materials such as fiberglass are sometimes incorporated into the fabric as reinforcement. Tubes are typically layered with at least one fabric layer and another layer, which is impermeable to the flow of the liquid resin.

The resin is typically unsaturated polyester. Vinyl ester and epoxy resins are sometimes used for better corrosion resistance or for unusual thermal conditions. The composition of the resin material can be varied to meet specific design conditions. Fabric tubes are manufactured to be the same size or slightly smaller than the inner diameter of the existing pipe to be rehabilitated. The saturated fabric stretches to conform to the inner surface of the pipe. Some mechanical bonding of the resin to the inner pipe surface does occur. The structural performance of the liner depends on the thickness of the liner as well as upon the condition of the existing pipe to a certain extent.

Insituform Technologies Inc., Nu Flow Technologies, Inc., Inliner Technologies, are some of the CIPP manufacturers on the market. As an example, Insituform installations have been accomplished in pipe sizes up to 108 inches. Insitupipe is a gravity CIPP lining system manufactured by Insituform that is designed to accommodate specific pipe conditions and structural requirements. The thickness of the Insitupipe varies from 0.12 to 1.59 inches as required by each project. The physical characteristics of the finished Insitupipe are largely a function of the resin system used.

Resin systems used in the Insituform process are unsaturated polyesters, vinyl esters, and epoxies. The resin is specifically designed on a project-by-project basis and the type selected is dependent on pipe function and condition among other factors.

#### **TRADITIONAL SEGMENTAL SLIPLINING**

In the traditional segmental sliplining process, a polyethylene or PVC liner of a slightly smaller diameter is inserted into an existing pipeline and the annulus between the two pipes is grouted to form one unified pipe. Sliplining can be used if the host pipe does not have excessive joint settlements, severe misalignments, or large deformations. The host pipe should be relatively straight between the insertion pit and the receiving manhole. The new pipe can form a continuous watertight pipe within the existing pipe after installation.

In segmental sliplining, individual sections of pipe (typically 15-feet in length) are pushed into the host pipe at insertion pits that are strategically located at points along the host pipeline alignment. The liner pipe is inserted fully rounded into the host pipe, with new segments added on and pushed through as needed. Pushes approaching 3,000 feet of pipe have been reported. The pipe liner segments are typically joined with tongue and groove joints. Lap joints are used with some liners. After the new pipe is positioned in place, the annular space is grouted.

It is necessary for the host pipe to reasonably straight and reasonably round, as slip liners are not pliable inserts. Some adaptation to bends in the pipe is possible through the use of short segments. Also, the liner can be deflected up to 2 degrees at each joint. However, sliplining is more practical for straight pipe segments.

An insertion pit must be excavated large enough to accommodate the pipe segment being inserted. An insertion pit on the order of 20 feet long by 8 feet wide by the depth of the host pipe is required to insert 15-foot pipe segments. The need for excavated insertion pits is a disadvantage compared with other technologies that are able to utilize existing manholes for liner insertion, i.e. spiral wound sliplining, cured-in-place liners, and fold and form liners.



The annulus space between the host pipe and the liner pipe represents a loss of hydraulic capacity for the pipe. As a potential offset to this lost hydraulic capacity, the newer and smoother sewer lining would offer less friction than the existing sewer pipe surface, but because a slime layer eventually builds up on any sewer pipe surface, increased capacity due to a smoother pipe surface might not be significant. However, sliplining an existing VCP sewer would eliminate headloss associated with the VCP pipe joints as the slipline would have nearly seamless joints.

An advantage for sliplining relative to CIPP, is that sliplining can take place with flow in the existing pipe, whereas CIPP requires damming of an upstream manhole and/or flow bypassing to ensure that the existing pipe is free of all flow. For sliplining to occur with flow in the pipe, the maximum low depth in the existing pipe should not exceed approximately 30% of the pipe diameter.

Service laterals remain connected to the host pipe during the rehabilitation process, but the laterals are out of service until openings can be cut through the CIPP lining at the connection points. A camera with a cutting device is run through the lined pipe to reopen the laterals remotely. The lateral locations must be surveyed as part of the pre-work video inspection in order to map out the lateral locations.

Lamson Vylon Pipe (PVC), Hobas (RMP), and Polypipe (PE) are some of the slipline manufacturers on the market. For example, Lamson Vylon Pipe manufactures a PVC slipliner pipe with an I-beam profile wall and gasketed joints rated for 11 psi. The pipe is available in diameters ranging from 21 to 48 inches. The standard pipe length is 15 feet. Lamson Vylon Pipe also manufactures a PVC slipliner pipe called "The Insider." The pipe is available in diameters ranging from 12 to 18 inches. The joint is a flush joint system with elastomeric seals. The pipe is very similar to SDR 35 pipe. The pipe is not pressure rated and it is suitable only for gravity-flow.

#### *SPIRAL-WOUND SLIPLINING*

In spiral-wound sliplining a winding machine helically winds a PVC strip into a tube which is simultaneously propelled directly into the existing host pipe. The spiral wound PVC pipe liner is composed of an extruded PVC profile strip with dual male and female locking elements on opposite sides of the strip. The profile strips have a ribbed design and range in width from 3.35 to 4.96 inches, which translates to a large number of joints. The profile strip, which is stored on a spool, is fed into an existing manhole via a winding machine. The winding machine forms the profile strip into a spiral pipe of a specified fixed diameter by sealing the male and female locking elements.

There is an expandable pipe liner version in which the pipe liner is expanded radially until the liner contacts the host pipe. This version is primarily applicable to sewers less than 24 inches in diameter. In the second version, the pipe liner remains a fixed diameter less than the inside diameter of the host pipe and grout is injected to fill the annulus between the two pipes. This second version, which can incorporate a steel reinforcing strip, is primarily applicable to sewers greater than 24 inches in diameter.

In the expansion version, after the liner is fully expanded, sealant is applied to the ends of the pipe. As discussed below, service connections are re-established similar to segmental sliplining. However, the ribbed profile of the spiral wound pipe liner creates small voids around the circumference of the connection that must be sealed.

In the fixed-diameter version, a secondary lock for the sliplined machine spiral wound PVC pipe liner remains intact in order to hold the pipe liner at a fixed diameter. The profile strips have a higher stiffness than the strips used for the expansion version. The maximum outside diameter of the fixed-diameter liner is limited to 2 inches less than the inside diameter of the existing pipe to ensure proper placement of grout.



An advantage of spiral-wound sliplining relative to segmental sliplining is that the liner can be inserted at existing manholes. The tube or liner is made in one continuous length from manhole to manhole. Unlike segmental sliplining, spiral-wound sliplining can accommodate pipe bends and more severe pipe deformations due to the flexible nature of the winding process.

Service laterals remain connected to the host pipe during the rehabilitation process, but the laterals are plugged and out of service until openings can be cut through the lining at the connection points. A camera with a cutting device is run through the lined pipe to reopen the laterals remotely. The lateral locations must be surveyed as part of the pre-work video inspection in order to map out the lateral locations.

Like segmental sliplining, spiral-wound sliplining can take place with flow in the existing pipe. For sliplining to occur with flow in the pipe, the maximum low depth in the existing pipe should not exceed approximately 30% of the pipe diameter.

Danby of North America, Inc (Twin Lock) and PipeTec, Inc. (Rib-Loc) are two of the spiral-wound sliplining companies.

### *TIGHT-FIT LINING*

A roll-down, die-reduction, or a folded-pipe lining process are similar trenchless technologies that are all included under a “tight-fit” classification by AWWA. In the tight-fit technologies, HDPE of a diameter either slightly greater or approximately the same diameter as the host pipe is reduced in diameter or deformed by mechanical means so that it can then be pulled through the host pipe. The HDPE pipe then expands naturally or is expanded to nearly its original diameter to fit tightly within the inside diameter of the host pipe. In contrast to segmental sliplining and fixed-diameter spiral-wound sliplining, these processes minimize the loss of inside diameter and eliminate the need for grouting as no annular space is left between the HDPE and the host pipe.

The equipment to perform the “roll-down” method consists of winching equipment used to pull the HDPE through the existing pipe and a roll-down box (a series of mechanical rollers) that physically rolls the outside diameter of the HDPE down to provide clearance to the inside diameter of the host pipe. Once rolled down, the HDPE is maintained under tension to prevent expansion as it is winched through the host pipe. When the entire run is installed, tension is released and the HDPE gradually returns to its original outside diameter and is a close fit to the host pipe.

The HDPE pipe is typically oversized by approximately 10% relative to the inside diameter of the host pipe because the original diameter is sometimes not achieved in the subsequent expansion, i.e. the HDPE sometimes expands to a diameter that is slightly less than its original diameter.

Factory produced lengths of HDPE are delivered to the jobsite, where they are fusion welded together to produce the full length of pipe for a specific installation or “pull.” An entrance pit is excavated at the beginning of the rehabilitation area. A pit width of at least 5’ is required. The length is generally 4 times the depth to invert, and may taper to grade away from the pipe. The length is to allow the stiff HDPE pipe to transition from surface elevation to centerline of pipe.

A receiving pit is excavated at the termination point. This pit length is typically in the 10 to 15-foot range. The winching equipment is set up at the receiving end and the roll down box is located at the entrance pit. The winch line is run through the pipe to connect the HDPE pipe to the winching equipment. The HDPE pipe is pulled through the roll down box and into the host pipe by the winch, with the line under continuous tension to maintain size and



clearance with the host pipe. Once the line is installed, tension is released and the HDPE pipe gradually resumes its original outside diameter, which is in close fit with the host pipe.

The length of an installation pull is dependent on the geometry of the host pipe. The HDPE pipe can usually be pulled through horizontal curves on the order of 5 to 7 degrees. However, depending on where the curve occurs in the pull, the condition and material of the host pipe, and other factors, larger curves up to 22 degrees have been achieved in some installations. A run must be terminated and a pit located at bends that cannot be pulled. Also there is a maximum length of straight pipe that can be pulled. Pulls up to 1,500 lf have been accomplished. Project cost and construction time increase as the number of pits required on a project increases.

A “die-reduction” lining method is very similar to roll-down with the exception that the HDPE pipe is pulled through a static reduction die instead of mechanical rollers. United Pipeline Services, which is a wholly owned subsidiary of Insituform Technologies, Inc., is one of the companies that perform roll-down pipe rehabilitation (Tite Liner). Swagelining is a patented die-reduction lining method. ARB, Inc. Constructors is a company that performs pipe rehabilitation using Swagelining.

The fold-and-formed lining process is similar in concept to the other tight-fit lining systems. In the fold-and-formed pipe (FFP) lining process, a folded thermoplastic relining product is inserted into the pipe to be repaired through an existing manhole or another entry point. The thermoplastic material, typically extruded PVC or HDPE, is folded into a U-shape to produce a smaller net-cross-sectional area so it can be more easily inserted into the existing pipeline.

After the plastic-liner pipe is inserted, hot water or steam is applied to expand the liner pipe into a snug fit with the host pipe (rounding). The liner is then gradually cooled while held in place by internal pressure. As it cools, the liner pipe interlocks with the irregularities of the host pipe. Although tight, mechanical bonding between the liner and the host pipe does not occur.

Subcoil as developed by Subterra is a folded-liner pipe in which the HDPE pipe is factory folded and held in a heart shape by restraints. The folded liner pipe is then inserted into the existing host pipe. Once inserted, the folded-pipe liner is pressurized to snap the restraints allowing it to revert back to its original circular shape. The expanded HDPE pipe then forms a tight fit with the host pipe. Doty Brothers is a company that performs pipe rehabilitation using the Subterra folded liner pipe. Kinsel Industries, which is a wholly owned subsidiary of Insituform Technologies, Inc., also installs a folded-pipe liner called Close Fit.

All of these tight-fit lining systems are similar to segmental sliplining in that: 1) it is necessary for the host pipe to be reasonably straight and reasonably round, as the liners are not pliable inserts; 2) an insertion pit must be excavated large enough to accommodate the pipe segment being inserted; 3) lining can take place with flow in the existing pipe; and 4) service laterals remain connected to the host pipe during the rehabilitation process, but the laterals are out of service until openings can be cut through the lining via a camera with a cutting device.

These processes are typically a little more expensive than traditional segmental sliplining. However, there is less loss in hydraulic capacity as a result of a reduction in pipe diameter.

#### ***SUITABILITY OF TRENCHLESS TECHNOLOGIES***

Some agencies, i.e., Los Angeles County Sanitation Districts (LACSD), typically rehabilitates sewers greater than 48 inches in diameter by sliplining with segmented plastic pipe and then grouting the annulus between the pipes because 1) these large sewers carry large flows and flow bypassing is not practical in most cases, and 2) a loss in diameter is not as significant with these larger pipes. LACSD typically rehabilitates sewers between 27 and 42



inches in diameter by CIPP or sliplining. The advantage to using CIPP is that it has minimal impact on capacity. Traditional segmental sliplining begins to negatively impact sewer capacity in these pipe sizes.

For sewers 24 inches and smaller, LACSD typically utilize CIPP, the expansion-version spiral-wound sliplining, and any of the tight-fit lining systems.

There have been reported troubles with wrinkles and folds using CIPP on larger diameter sewers, but no such troubles using CIPP on smaller diameter sewers. Tight-fit lining systems can typically be installed more quickly than CIPP and has better quality control in terms of material properties than CIPP liner. However, CIPP can be less expensive than a tight-fit technology and offers advantages such as more efficient re-establishment of service laterals. Traditional segmental sliplining can be less expensive than the CIPP or tight-fit lining technologies on a given project. However, segmental sliplining results in a greater loss in pipe diameter.

Given the specific conditions of a given sewer rehabilitation project, several of these trenchless technologies could be effective and price competitive on the same project. Some technologies might be excluded on a specific project, if a reduction in pipe diameter cannot be tolerated, if flow bypassing is not practical, or because of specific deformations of the existing sewer among other factors to consider in the design process.

### **OTHER TYPES OF SEWER REPAIRS**

Often times a sewer segment will be in overall good condition with the exception of severe defects that occur at a specific location or several locations along the segment. These point defects include broken pipe, severe cracking, or other damage that occurs within a limited length of pipe, i.e. approximately 5 linear feet or less. If there are a limited number of these spot defects, then it is more economical to excavate and repair these specific locations rather than to replace the entire sewer segment. If there are four or more such locations in a 300 or 400 If sewer segment, then it becomes more practical to replace the segment.

Because CIPP forms against the existing pipe wall, most point defects need to be repaired prior to lining the sewer. Most point repairs also need to be made in front of spiral wound sliplining. If the damage is not overly severe, then sometimes these repairs do not need to be made in front of segmental sliplining and possibly some types of tight-fit lining systems. However, if a sewer is collapsed at a point, then this repair will need to be made prior to any lining method.

Unauthorized sewer lateral connections (also referred to as break-in taps) are often discovered when a sewer is videotaped. As opposed to factory taps, unauthorized taps are often crudely hammered into the sewer. Wet-weather infiltration can enter the sewer via the unsealed and often cracked periphery of the connection. Sometimes these unauthorized connections were made to collect storm water from house roof drains and other area drains. In these cases, they become a major source of wet-weather inflow. Wet-weather inflow and infiltration can overflow and surcharge a sewer and can lead to sewer overflows.



The connection could also prove to be some type of chemical or hazardous waste drain. In rehabilitating these unauthorized connections, the lateral pipe should be smoke tested to see what it is connected to. If it is found to be connected to storm drain or some other inappropriate drain, then the lateral should be disconnected and the sewer should be plugged and repaired at the point of connection. The owner of the inappropriate drain should then be required to reroute the discharge to an appropriate receiving connection. If connected to a sanitary sewer, the connection can be reconnected, sealed and repaired as required to block infiltration into the sewer.

## **SEWER REPLACEMENT & REHABILITATION UNIT COSTS**

Planning level unit construction cost estimates for sewer replacement and rehabilitation are shown in Table 4-1. These unit costs will be used to develop planning level project cost estimates to develop Capital Improvement Program costs for this Master Plan. These unit costs do not include project mobilization, which will need to be added to project cost estimates. Project mobilization is estimated at 5 to 10% of the total project construction cost depending on the size and complexity of the project. All sewer rehabilitation and replacement unit costs shown in Table 4-1 include re-establishment of service laterals. Costs for all rehabilitation methods include heavy sewer cleaning, pre, and post rehabilitation sewer videotaping.

Design-level cost estimates will need to be developed to refine project costs based on project conditions determined during the design phase of each project. For example, soil conditions determined in the design phase might preclude pipe bursting as a possible sewer replacement.



**Table 4-1: Unit Construction Costs for Sewer Replacement or Rehabilitation**

| Replacement or Rehabilitation Method                                    | Unit Costs per Sewer Diameter (in) |                  |                  |                  |                   |
|-------------------------------------------------------------------------|------------------------------------|------------------|------------------|------------------|-------------------|
|                                                                         | 8"                                 | 10"              | 12"              | 15"              | 18"               |
| CIPP(b)                                                                 | \$55/lf                            | \$62/lf          | \$68/lf          | \$105/lf         | \$140/lf          |
| CIPP (bypass)                                                           | \$3                                | \$4              | \$5              | \$10             | \$15              |
| Segmental Slipline(b)(c)(d)                                             | \$70/lf                            | \$78/lf          | \$85/lf          | \$110/lf         | \$145/lf          |
| Expansion Spiral Wound Slipline(b)(c)                                   | \$75/lf                            | \$83/lf          | \$90/lf          | \$115/lf         | \$150/lf          |
| Tight-Fit Lining(b)(c)(d)                                               | \$75/lf                            | \$83/lf          | \$90/lf          | \$115/lf         | \$150/lf          |
| Rehab Break-in Tap                                                      | \$7,000/ea                         | \$7,000/ea       | \$7,000/ea       | \$7,000/ea       | \$7,000/ea        |
| Sewer Point Repair                                                      | \$7,000/ea                         | \$7,000/ea       | \$7,500/ea       | \$8,000/ea       | \$8,000/ea        |
| Pipe Bursting(b)(d)                                                     | \$165/lf                           | \$180/lf         | \$215/lf         | \$250/lf         | \$300/lf          |
| Open-Cut Sewer Replacement(b)                                           | \$180/lf                           | \$210/lf         | \$240/lf         | \$275/lf         | \$340/lf          |
| Open-Cut Parallel Sewer(b)                                              | \$158/lf                           | \$170/lf         | \$205/lf         | \$240/lf         | \$295/lf          |
| Bypass for Pipe Bursting or Open-Cut Replace                            | \$3/lf                             | \$4/lf           | \$5/lf           | \$10/lf          | \$15/lf           |
| Open-Cut Pavement Replacement                                           | \$13/lf                            | \$14/lf          | \$15/lf          | \$16/lf          | \$17/lf           |
| Open-Cut Traffic Control<br>1) Residential Street<br>2) Arterial Street | \$3/lf<br>\$7/lf                   | \$4/lf<br>\$7/lf | \$5/lf<br>\$8/lf | \$5/lf<br>\$9/lf | \$5/lf<br>\$10/lf |
| Bore and Jack(e)                                                        | \$800/lf                           | \$900/lf         | \$1,000/lf       | \$1,200/lf       | \$1,500/lf        |

- a) For all items, project mobilization not included, which is estimated at 5 to 10% of total project construction cost
- b) Including re-establishment of service laterals
- c) Estimated that flow bypassing will not be necessary as construction work will be done during low flow periods with flow in the pipe
- d) Includes installation pit excavation, pavement replacement and traffic control
- e) Includes installation and receiving pit excavation, pavement replacement and traffic control
- f) Alternative. Flow conditions might make CIPP less attractive as a rehabilitation method if extensive flow bypassing is required, etc.

For planning purposes, it is estimated that CIPP is slightly less expensive than the other trenchless technologies for rehabilitating 8-inch, 10-inch and 12-inch sewers especially if flow bypassing can be limited by low flows or possibly eliminated if damming an upstream manhole during installation and curing is possible. It is also estimated that segmental sliplining is slightly less expensive than expansion spiral-wound sliplining or tight-fit sliplining. The slightly higher cost could be warranted if a reduction in pipe diameter cannot be tolerated.





It is estimated that segmental sliplining and even spiral-wound sliplining or tight-fit sliplining can become more cost effective relative to CIPP for sewer diameters greater than 12 inches if extensive flow bypassing is required. Expansion spiral-wound sliplining and tight-fit lining are estimated to be more expensive than segmental sliplining at all diameters. However, these two methods or CIPP might be required if the reduction in diameter resulting from segmental sliplining cannot be tolerated.

Construction conditions as determined in the design phase might preclude a rehabilitation method from inclusion in the contract bid. However, it would be appropriate to include as many of these rehabilitation methods in a competitive bid as warranted if there are no fatal flaws with the rehabilitation method specific to the project. In a competitive bid environment, any of the viable rehabilitation methods could conceivably end up having a lower cost.

The costs to excavate and make point repairs for breaks, severe misalignment, severe cracking, or other damage that occurs within a limited length of pipe, i.e. approximately 5 linear feet or less, are also shown in Table 4-1. If there are four or more such locations in a 300 or 400 If sewer segment, then it typically becomes more cost effective to replace the segment. Point repairs will need to be made prior to conducting lining rehabilitation depending on the severity of the defect and the type of rehabilitation method used.

The costs to smoke test an unauthorized lateral connection (break-in tap) and then repair and seal the sewer at the point of connection are shown in Table 4-1. It is assumed that the cost to reroute an unauthorized lateral connection to an appropriate receiving location will be burdened by the owner of the unauthorized lateral connection.

For planning purposes, it is estimated that pipe bursting has the same unit cost as sewer replacement by open-cut excavation. However, the unit costs for pipe bursting includes installation pit excavation, pavement replacement, and traffic control, whereas pavement replacement and traffic control are additional costs for sewer replacement by open-cut excavation as shown in Table 4-1. Flow bypassing is an additional cost for both sewer replacement by open cut excavation and pipe bursting in Table 4-1.

The cost to construct a parallel sewer is estimated to be less expensive than the cost to construct a replacement sewer of the same size. In constructing a parallel sewer, the need to perform bypass pumping is greatly reduced and in some cases might be eliminated altogether. Additionally, sewer laterals on the side of the existing sewer away from the parallel sewer can remain connected to the existing sewer, or if they are to be connected to the new sewer, the connections can be made after the new sewer has been constructed. Sewer laterals on the side of the existing sewer where the parallel sewer is being constructed will typically need to be connected to the new sewer at the end of each workday.

The estimated cost to employ bore and jack construction to go below major road intersections and major surface obstructions such as railroad tracks, freeways, etc., are also shown in Table 4-1

### **MANHOLE REHABILITATION**

During rain events, rainwater can enter the sanitary sewer system through cracks in the pipe, and this leakage is referred to as infiltration and inflow. Infiltration and inflow typically increases as the sanitary sewer system gets older. Infiltration and inflow is a problem because it dilutes the sewage, which can decrease the efficiency of the wastewater treatment. It also increases the volume of sewage, which may exceed the treatment capacity at the wastewater treatment plant.



There are several different methods of rehabilitating manholes, and the rehabilitation method selected depends on the condition of the manhole. The most common rehabilitation methods are:

Replacing frame and cover — the metal circular lid for the manhole that is supported by a metal frame — and the steps, which are used to go up and down the manhole.

Spraying cementitious mortar to the inside of the manhole. The mortar is applied all around the inside of the manhole and then brushed to provide a smoother surface.

Spraying an epoxy liner to the inside of the manhole.

Additional methods include sealing and grouting the manhole, adjusting the height of the manhole, and repairing the interior bottom of the manhole. If a manhole is found to have multiple defects, it may be more cost effective to replace the manhole. This is especially true for older manholes that are at or beyond their design life.

#### **MANHOLE REPLACEMENT & REHABILITATION UNIT COSTS**

Planning level unit construction cost estimates for manhole replacement and rehabilitation are shown in Table 4-2. These unit costs will be used to develop planning level project cost estimates to develop Capital Improvement Program costs for this Master Plan. These unit costs do not include project mobilization, which will need to be added to project cost estimates. Project mobilization is estimated at 5 to 10% of the total project construction cost depending on the size and complexity of the project.

**Table 4-2: Unit Construction Costs for Manhole Replacement or Rehabilitation <sup>(a)</sup>**

| <b>Replacement or Rehabilitation Method</b> | <b>Unit Cost</b> |
|---------------------------------------------|------------------|
| Manhole Replacement                         | \$10,000         |
| Manhole Rehabilitation                      | \$7,000          |

*a). Not including project mobilization, which is estimated at 5 to 10% of total project construction cost*





# CHAPTER 5 SEWER CCTV INVESTIGATIONS

## OVERVIEW

As part of the Master Plan, 222,000 linear feet (54.8 miles) of City sewers were videotaped using closed circuit television (CCTV), which is approximately 100% of the City's total collection system. The sewer CCTV inspections were conducted in order to identify defects, rate defects, and then incorporate recommended improvements into the Capital Improvement Program. Sewers videotaped as part of this project are shown on Figure 5-1.

As part of the Sewer Master Plan, the sewer inspection reports were reviewed; sewers with significant structural defects were prioritized for rehabilitation or replacement; and the recommended projects were included in the Capital Improvement Program, which is discussed in Chapter 6.

Sewer structural defects include cracked pipe, broken pipe, offset joints, and unauthorized service connections (break-in taps). Sewer operation and maintenance (O&M) defects including heavy roots and grease deposits can lead to sewer blockages that can then lead to overflows. Sewer defects can undermine the integrity of the sewer system infrastructure; can allow wastewater to exfiltrate into the soil and groundwater; and can allow excessive rainwater in the form of inflow and infiltration to enter the sewer leading to potential overflow conditions.

## SEWER CCTV INSPECTIONS

The Pipeline Assessment and Certification (PACP) assessment and rating system developed by the National Association of Sewer Service Companies (NASSCO) was used to assess and categorize sewer defects. NASSCO is a non-profit trade association consisting of contractors, manufacturers/ suppliers and professionals (engineers, cities, etc.) involved with many sewer technologies. The PACP Condition Rating System provides condition ratings for sewer structural defects, and operation and maintenance defects. Grades are assigned for each category based on the grading criteria shown in Table 5-1.

The Pipe Defects Rating is the addition of all grade defect occurrences multiplied by their respective grade levels for a given pipe segment (a pipe segment is the length of sewer pipe between two manholes). For example, a pipe with four Grade 5 occurrences, three Grade 3 occurrences, and three Grade 1 defects with no other defects found would have a Pipe Defects Rating of 32. The Pipe Defects Rating Index is the Pipe Defects Rating divided by the total number of defect occurrences. In the example above, the Pipe Defects Rating Index would be 3.2 (32 divided by 10). The Pipe Defects Quick Rating is the number of occurrences of the two highest grades. In the above example, the Pipe Defects Quick Rating would be 5(4) 3(3). This is true for both the "Structural" as well as the "O&M" categories. The difference between the Structural and O&M categories is the type of defects they consider. Structural defects consist of anything that has to do with the structural integrity of the pipe. These include cracks, offset joints, holes, fractures, etc. O&M defects deal with the overall operation and maintenance of the pipe and include roots, grease, obstacles, etc.



Figure 5-1: CCTV Inspection Map

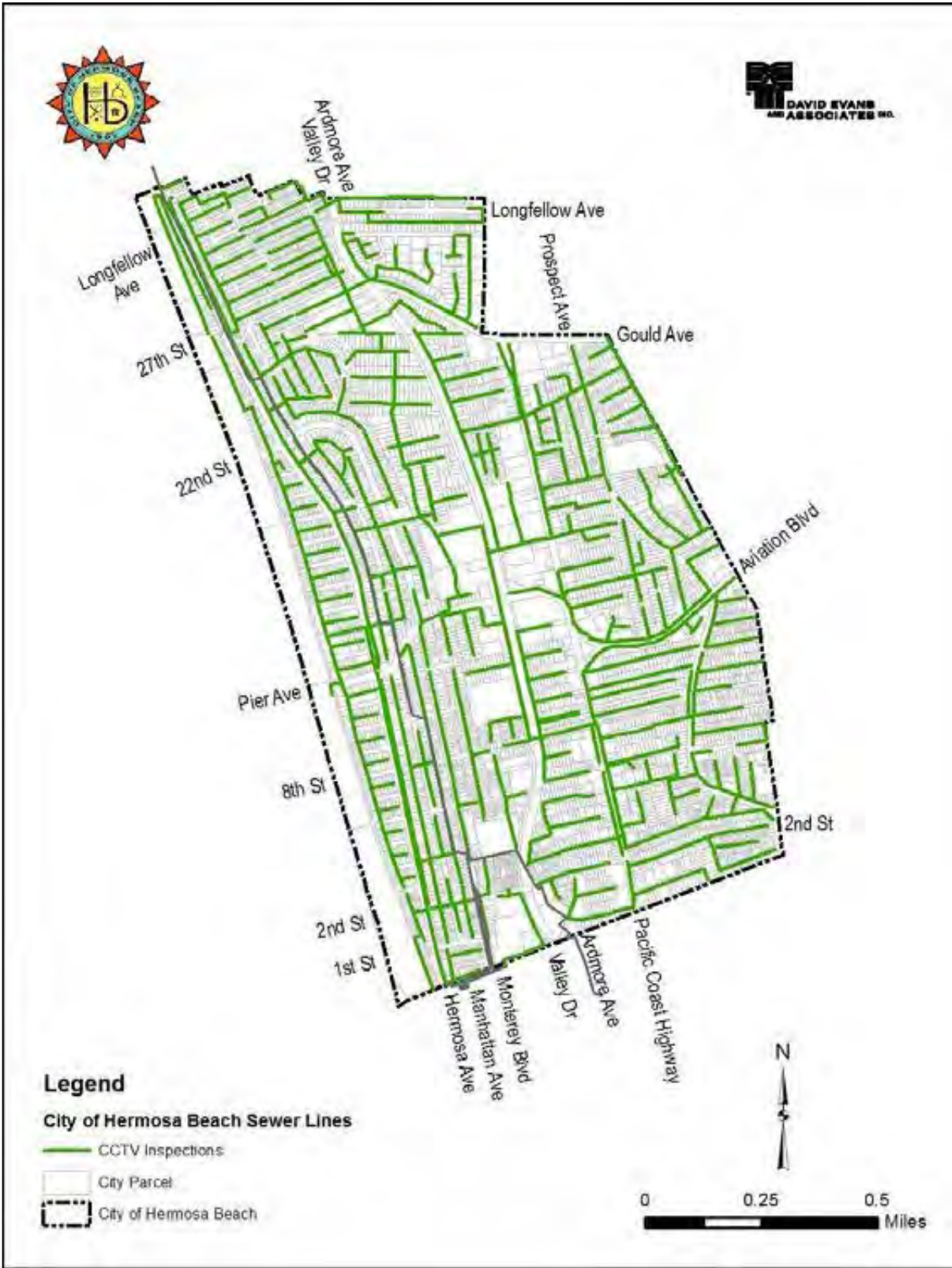


**Table 5-1: Sewer Defect Grade Descriptions**

| Defects Grade | Description                                         |
|---------------|-----------------------------------------------------|
| 5 – Severe    | Severe defects requiring immediate attention        |
| 4 – Heavy     | Defects that will become Grade 5 in the near future |
| 3 – Moderate  | Defects that will continue to deteriorate           |
| 2 – Fair      | Defects that have not begun to deteriorate          |
| 1 – Light     | Minor defects                                       |

The PACP continuous defect feature is used to denote where long portions of a sewer pipe are affected by the same defect, without the user having to repetitively enter point defects. The equivalent number of uninterrupted and joint repeating continuous defects is converted to equivalent point defects by dividing the length of the continuous defect by 5. For example, a 250-foot-long continuous defect, Grade 3, would equate to 50 equivalent Grade 3 point defects.

The sewers were rated separately for structural defects and O&M defects. Both were sorted by highest Pipe Defects Rating. The ratings for all sewers videotaped as part of the Master Plan are shown in the Appendix.

### **SEWER STRUCTURAL DEFECTS**

The vast majority of sewers in the City are constructed of non-reinforced Concrete Pipe (CP). A number of sewers were found to have significant structural defects that need to be rectified either by rehabilitation or replacement within the 10-year CIP. In terms of a structural defect, a category 5 defect can be a broken pipe where the soil is visible through the hole in the pipe, or it can be collapsed pipe, or it can be a severe offset joint where the flow way in the pipe is reduced by over 50%. Any category 5 defect is recommended for repair or replacement within the 10-year CIP as a high priority project.

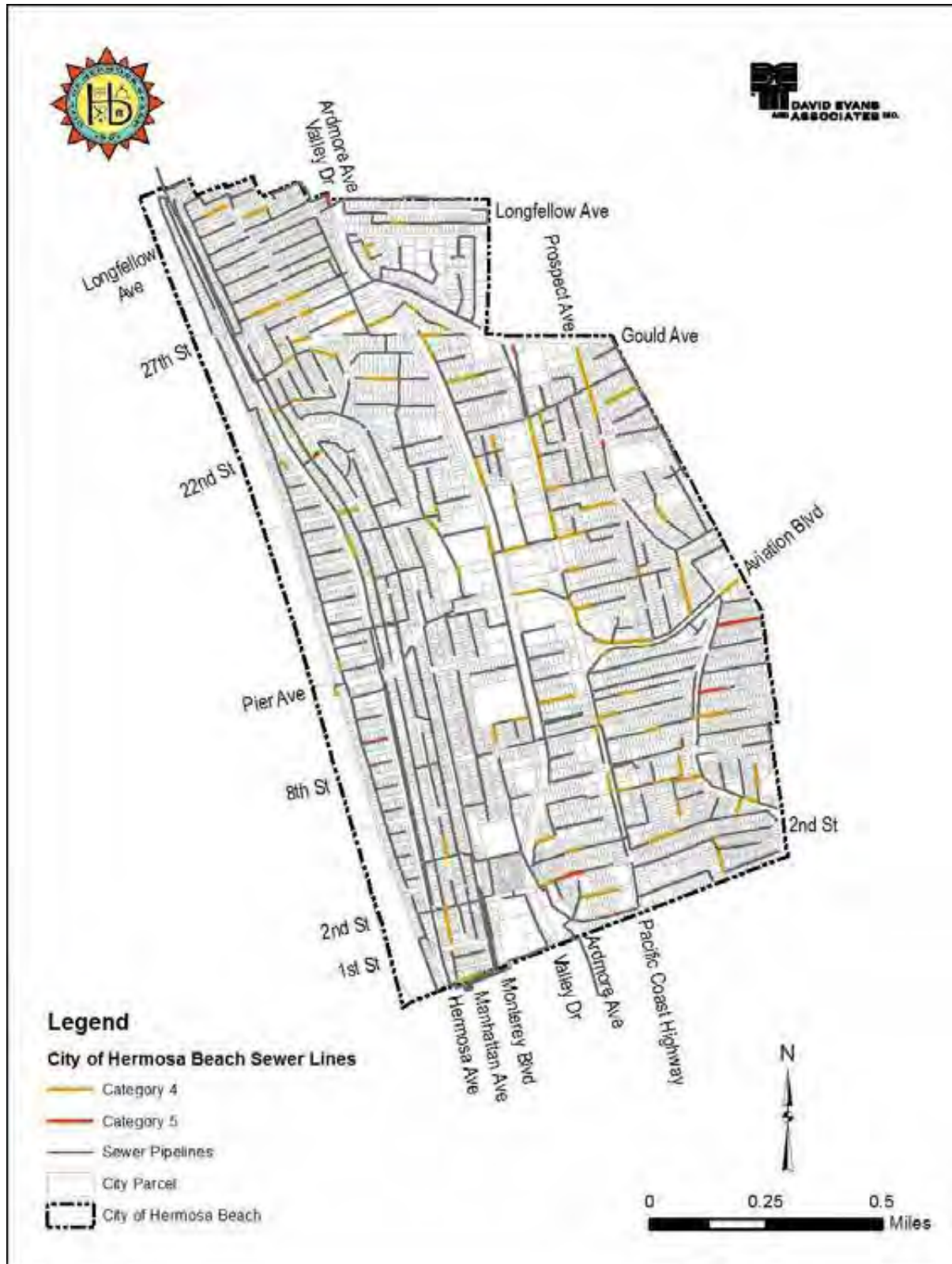
A category 4 defect is a severe fracture or breaking of the pipe that could become a category 5 defect in the near future, or it can be a severe offset joint. An 8-inch or larger sewer segment with a single or multiple category 4 defects was recommended for rehabilitation or replacement, especially if they were occurring in conjunction with multiple category 3 and 2 defects.

A category 3 defect is multiple cracking at a location in the pipe. Multiple cracking can continue to spread, i.e. deteriorate, over time. A pipe segment with many and/or recurring category 3 defects is recommended for rehabilitation. A category 2 defect is a single deep crack where the sides of the crack have separated. A type 1 defect is a single hairline crack that has not separated. Type 2 and Type 1 and many do not need to be repaired in the 20-year CIP, and most likely, will require attention after 10 years or more. Figure 5-2 shows Category 4 and 5 defects as identified during the CCTV inspections





Figure 5-2: Structural Defects by Category





Sewer segments recommended for rehabilitation or replacement within the 10-year CIP are shown on Figure 5-3 and are listed in Table 5-2. The defects to be repaired are associated with videotaped sewer segments totaling 222,000 linear feet (42 miles).

It is more economical to rehabilitate a sewer by installing a liner such as a cured-in-place pipe (CIPP) liner or a polyethylene or PVC slip-liner than to replace the sewer segment with a new sewer segment, as the lining can be installed via trenchless technology and costs from \$55 to \$90/linear foot (lf) for 8 to 12-inch pipe compared with \$185 to \$235/lf for the same diameter range including the costs to excavate, trench, replace pavement, and implement traffic control.

A sewer segment (with an average length of 300 lf) could have one or two Category 5 defects or severe Category 4 defects with the remaining sewer segment having only insignificant defects. Considering the age of the sewer, in some cases, it might be cost effective to implement excavated spot repairs (where only the small length of defective sewer is replaced). However, spot repairs are relatively expensive at approximately \$7,000 to \$8,000 each, and it is usually only cost effective to implement one, and in some cases, two spot repairs on a segment rather than to line the sewer if the point defects can be lined. If the pipe is not collapsed or severely deformed, and a liner can still be implemented with structural integrity and without impeding on the pipe flow area, it is usually better to just line the entire segment, especially if the segment has other defects and is aged.

However, if a pipe has significant number of Category 3, 4 and 5 defects, both structurally and from an OM perspective, and is of significant age, it is better to replace the sewer even if the sewer can still be lined considering the remaining useful life of the sewer segment.

All of the Category 4 and 5 sewer defects were closely evaluated and if they had either: a) significant quantities of structural defects; or b) a combination of structural defects and O&M defects, they were recommended for replacement. Additionally, line segments with Category 1, 2, and 3 were also evaluated both from a structural and from an O&M defects perspective. If these lines were determined to have a combination (structural and O&M) that made them a candidate for replacement, they were identified as such. However, if the combination of structural and O&M defects were not as severe, they were recommended for relining. Finally, if a line segment was deemed as being in good condition, it was not recommended for any rehabilitation.

Once these initial recommendations were finalized and the results were plotted on the collection system map, we then analyzed the recommendations for additional optimization. Optimization includes recommending a segment that is in-between two segments that are targeted for rehabilitation, for the same type of rehabilitation. This is done for two reasons: first, this will lower the overall cost of construction by reducing the contractor's mobilization efforts by providing them with several continuous segments versus several small and isolated segments; second, not replacing a pipe that is in between two targeted segments, however defect free, does not save any money in the long run. The optimized pipe is usually as old as its surrounding pipes and eventually needs to be replaced, so it is better to replace it with its adjoining pipes at the same time.



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Table 5-2: Recommended Sewer Rehabilitation

| STREET NAME           | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST |
|-----------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|
| 31th PL               | 47       | 46        | 8             | 33     | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 33       | \$ 6,600          | \$ 9,900     |
| ARDMORE AVE           | 73       | 72        | 10            | 147    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 235       | 147      | \$ 34,545         | \$ 51,800    |
| OZONE CT EASEMENT     | 116      | 112       | 8             | 87     | VCP           | 4100                      | 4           | 4100               | Replace Line               | LF    | 200       | 87       | \$ 17,400         | \$ 26,100    |
| 19TH ST               | 325      | 324       | 8             | 254    | CP            | 5200                      | 17          | 1B00               | Replace Line               | LF    | 200       | 254      | \$ 50,800         | \$ 76,200    |
| 20TH ST               | 327      | 323       | 8             | 201    | CP            | 5100                      | 25          | 221C               | Replace Line               | LF    | 200       | 201      | \$ 40,200         | \$ 60,300    |
| 20TH PL               | 329      | 322       | 8             | 402    | CP            | 5100                      | 1           | 1100               | Replace Line               | LF    | 200       | 402      | \$ 80,400         | \$ 120,600   |
| 25th ST               | 586      | 509       | 8             | 128    | CP            | 5200                      | 7           | 4113               | Replace Line               | LF    | 200       | 128      | \$ 25,600         | \$ 38,400    |
| AVA AVE               | 749      | 744       | 8             | 199    | CP            | 5100                      | 5           | 4111               | Replace Line               | LF    | 200       | 199      | \$ 39,800         | \$ 59,700    |
| PROSPECT AVE          | 784      | 784A      | 8             | 229    | VCP           | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 229      | \$ 45,800         | \$ 68,700    |
| 16TH ST               | 794      | 752       | 8             | 227    | CP            | 4421                      | 5           | 5100               | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    |
| 16TH ST               | 795      | 794       | 8             | 109    | CP            | 5200                      | 3           | 3100               | Replace Line               | LF    | 200       | 109      | \$ 21,800         | \$ 32,700    |
| GOLDEN AVE            | 832      | 831       | 8             | 203.3  | CP            | 5100                      | 20          | 3324               | Replace Line               | LF    | 200       | 203      | \$ 40,660         | \$ 61,000    |
| 21st St               | 1055     | 1054      | 8             | 91     | VCP           | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 91       | \$ 18,200         | \$ 27,300    |
| PALM DR               | 1068     | 1067      | 8             | 521    | VCP           | 4300                      | 4           | 4100               | Replace Line               | LF    | 200       | 521      | \$ 104,200        | \$ 156,300   |
| BEACH DR              | 1089     | 1088      | 8             | 58     | VCP           | 5100                      | 2           | 2100               | Replace Line               | LF    | 200       | 58       | \$ 11,600         | \$ 17,400    |
| OAK ST EASEMENT       | 0860A    | 859       | 8             | 378    | VCP           | 4100                      | 4           | 4100               | Replace Line               | LF    | 200       | 378      | \$ 75,600         | \$ 113,400   |
| MANHATTAN AVE         | 1070A    | 1070      | 6             | 285    | VCP           | 5100                      | 7           | 3114               | Replace Line               | LF    | 200       | 285      | \$ 57,000         | \$ 85,500    |
| 11TH ST               | 637      | 633       | 8             | 250    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 250      | \$ 50,000         | \$ 75,000    |
| HERONDO St            | 172      | 1001      | 8             | 126    | VCP           | 5100                      | 5           | 4111               | Replace Line               | LF    | 200       | 126      | \$ 25,200         | \$ 37,800    |
| 2ND ST                | 212      | 211       | 8             | 184    | CP            | 5100                      | 41          | 3123               | Replace Line               | LF    | 200       | 184      | \$ 36,800         | \$ 55,200    |
| BARNEY CT-EASEMENT    | 213      | 209A      | 8             | 133    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 133      | \$ 26,600         | \$ 39,900    |
| BARNEY CT             | 214      | 213       | 8             | 271    | CP            | 4E+32                     | 4           | 4100               | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    |
| 1ST PL                | 224      | 223       | 8             | 510    | CP            | 4532                      | 4           | 4100               | Replace Line               | LF    | 200       | 510      | \$ 102,000        | \$ 153,000   |
| 2ND ST                | 233      | 232       | 8             | 233    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 233      | \$ 46,600         | \$ 69,900    |
| 5TH ST                | 253      | 252       | 8             | 271    | CP            | 5100                      | 1           | 1100               | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    |
| PROSPECT AVE-EASEMENT | 264      | 263       | 8             | 234    | CP            | 5200                      | 61          | 4132               | Replace Line               | LF    | 200       | 234      | \$ 46,800         | \$ 70,200    |
| 5TH ST-EASEMENT       | 271      | 270       | 8             | 242    | CP            | 5142                      | 7           | 4131               | Replace Line               | LF    | 200       | 242      | \$ 48,400         | \$ 72,600    |
| 4th St                | 295      | 294       | 8             | 262    | CP            | 5231                      | 22          | 4521               | Replace Line               | LF    | 200       | 262      | \$ 52,400         | \$ 78,600    |
| AVIATION BLVD         | 620      | 619       | 8             | 115    | CP            | 5142                      | 4           | 4100               | Replace Line               | LF    | 200       | 115      | \$ 23,000         | \$ 34,500    |
| AVIATION BLVD         | 630      | 629       | 8             | 307    | VCP           | 5100                      | 2           | 2100               | Replace Line               | LF    | 200       | 307      | \$ 61,400         | \$ 92,100    |
| PROSPECT AVE          | 634      | 633       | 8             | 264    | CP            | 5100                      | 50          | 311J               | Replace Line               | LF    | 200       | 264      | \$ 52,800         | \$ 79,200    |
| 11TH ST               | 638      | 637       | 8             | 257    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 257      | \$ 51,400         | \$ 77,100    |
| PACIFIC COAST HWY     | 655      | 615       | 8             | 235    | CP            | 4100                      | 4           | 4100               | Replace Line               | LF    | 200       | 235      | \$ 47,000         | \$ 70,500    |
| ALLEY                 | 663      | 662       | 6             | 134    | CP            | 5400                      | 0           | 0                  | Replace Line               | LF    | 200       | 134      | \$ 26,800         | \$ 40,200    |
| 8TH ST                | 675      | 670       | 8             | 246    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 246      | \$ 49,200         | \$ 73,800    |
| ARDMORE AVE           | 688      | 611       | 8             | 187    | CP            | 5100                      | 1           | 1100               | Replace Line               | LF    | 200       | 187      | \$ 37,400         | \$ 56,100    |
| GOLDEN AVE            | 832      | 831       | 8             | 203.3  | CP            | 5100                      | 9           | 3300               | Replace Line               | LF    | 200       | 203      | \$ 40,660         | \$ 61,000    |



| STREET NAME          | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST |
|----------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|
| 21st St              | 1055     | 1054      | 8             | 91     | VCP           | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 91       | \$ 18,200         | \$ 27,300    |
| HERMOSA AVE          | 1107     | 1106A     | 8             | 204    | VCP           | 5100                      | 12          | 3400               | Replace Line               | LF    | 200       | 204      | \$ 40,800         | \$ 61,200    |
| HERMOSA AVE          | 1014A    | 1016      | 8             | 100    | VCP           | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 100      | \$ 20,000         | \$ 30,000    |
| FRANCISCO ST         | 61       | 60        | 8             | 170    | CP            | 4200                      | 25          | 4332               | Replace Line               | LF    | 200       | 170      | \$ 34,000         | \$ 51,000    |
| FRANCISCO AVE        | 61       | 60        | 8             | 170    | VCP           | 4100                      | 4           | 2200               | Replace Line               | LF    | 200       | 170      | \$ 34,000         | \$ 51,000    |
| FRANCISCO ST         | 62       | 61        | 8             | 155    | CP            | 3100                      | 7           | 4131               | Replace Line               | LF    | 200       | 155      | \$ 31,000         | \$ 46,500    |
| PARK AVE             | 106      | 105       | 8             | 227    | CP            | 5132                      | 38          | 4433               | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    |
| MYRTLE AVE           | 109      | 103       | 8             | 166    | CP            | 4331                      | 30          | 4129               | Replace Line               | LF    | 200       | 166      | \$ 33,200         | \$ 49,800    |
| 27th CT              | 114      | 113       | 8             | 373    | VCP           | 4100                      | 22          | 4134               | Replace Line               | LF    | 200       | 373      | \$ 74,600         | \$ 111,900   |
| 29th ST              | 523      | 518       | 8             | 479    | CP            | 4131                      | 19          | 4132               | Replace Line               | LF    | 200       | 479      | \$ 95,800         | \$ 143,700   |
| 27th CT              | 535      | 534       | 8             | 175    | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 175      | \$ 35,000         | \$ 52,500    |
| ARDMORE AVE          | 726      | 725       | 8             | 269    | VCP           | 5131                      | 4           | 3111               | Replace Line               | LF    | 200       | 269      | \$ 53,800         | \$ 80,700    |
| ARDMORE AVE          | 731      | 730       | 8             | 224    | VCP           | 4200                      | 3           | 3100               | Replace Line               | LF    | 200       | 224      | \$ 44,800         | \$ 67,200    |
| 24Th Pl              | 735      | 728       | 8             | 339    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 339      | \$ 67,800         | \$ 101,700   |
| SPRINGFIELD AVE      | 748      | 745       | 8             | 146    | CP            | 5131                      | 43          | 332A               | Replace Line               | LF    | 200       | 146      | \$ 29,200         | \$ 43,800    |
| ARDMORE AVE EASEMENT | 801      | 0801A     | 8             | 200    | VCP           | 3100                      | 4           | 4100               | Replace Line               | LF    | 200       | 200      | \$ 40,000         | \$ 60,000    |
| HERMOSA AVE          | 1025     | 1024      | 8             | 537    | VCP           | 4100                      | 36          | 512A               | Replace Line               | LF    | 200       | 537      | \$ 107,400        | \$ 161,100   |
| HERMOSA AVE          | 1030     | 1029      | 8             | 190    | VCP           | 4100                      | 7           | 4113               | Replace Line               | LF    | 200       | 190      | \$ 38,000         | \$ 57,000    |
| OZONE                | 1042     | 1039      | 8             | 391    | CP            | 4100                      | 6           | 3121               | Replace Line               | LF    | 200       | 391      | \$ 78,200         | \$ 117,300   |
| PALM DR              | 1052     | 1036      | 6             | 790    | VCP           | 4535                      | 51          | 4333               | Replace Line               | LF    | 200       | 790      | \$ 158,000        | \$ 237,000   |
| 21st Ct              | 1081A    | 1081      | 6             | 218    | VCP           | 4100                      | 2           | 2100               | Replace Line               | LF    | 200       | 218      | \$ 43,600         | \$ 65,400    |
| 24th ST              | C2107    | 1023      | 8             | 235    | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 235      | \$ 47,000         | \$ 70,500    |
| LOMA DR              | 124      | 123       | 8             | 458    | VCP           | 4100                      | 128         | 4A3C               | Replace Line               | LF    | 200       | 458      | \$ 91,600         | \$ 137,400   |
| BAYVIEW DR           | 126      | 0126A     | 6             | 435    | VCP           | 4232                      | 36          | 4622               | Replace Line               | LF    | 200       | 435      | \$ 87,000         | \$ 130,500   |
| 2nd ST               | 207      | 206       | 8             | 307    | CP            | 4200                      | 8           | 3221               | Replace Line               | LF    | 200       | 307      | \$ 61,400         | \$ 92,100    |
| 2ND ST               | 232      | 231       | 8             | 140    | CP            | 4B00                      | 2           | 2100               | Replace Line               | LF    | 200       | 140      | \$ 28,000         | \$ 42,000    |
| 2ND ST               | 235      | 234       | 8             | 370    | CP            | 513B                      | 4           | 4100               | Replace Line               | LF    | 200       | 370      | \$ 74,000         | \$ 111,000   |
| 24th ST              | 591      | 0591A     | 8             | 316    | CP            | 4100                      | 7           | 3114               | Replace Line               | LF    | 200       | 316      | \$ 63,200         | \$ 94,800    |
| 9th St               | 696      | 689       | 6             | 443    | CP            | 4100                      | 3           | 3100               | Replace Line               | LF    | 200       | 443      | \$ 88,600         | \$ 132,900   |
| VALLEY DR            | 701      | 610       | 8             | 15     | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 15       | \$ 3,000          | \$ 4,500     |
| CYPRESS AVE          | 706      | 705       | 8             | 69     | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 69       | \$ 13,800         | \$ 20,700    |
| 11th St              | 708      | 608       | 8             | 338    | CP            | 4131                      | 16          | 4126               | Replace Line               | LF    | 200       | 338      | \$ 67,600         | \$ 101,400   |
| VALLEY DR            | 722      | 605       | 10            | 127    | CP            | 4100                      | 6           | 4112               | Replace Line               | LF    | 235       | 127      | \$ 29,845         | \$ 44,800    |
| PARK AVE             | 1047     | 1046      | 8             | 326    | CP            | 4100                      | 17          | 4331               | Replace Line               | LF    | 200       | 326      | \$ 65,200         | \$ 97,800    |
| MANHATTAN AVE        | 1057     | 1056      | 8             | 128    | CP            | 4131                      | 5           | 1500               | Replace Line               | LF    | 200       | 128      | \$ 25,600         | \$ 38,400    |
| MANHATTAN AVE        | 1061     | 1060      | 8             | 291    | CP            | 4200                      | 23          | 4227               | Replace Line               | LF    | 200       | 291      | \$ 58,200         | \$ 87,300    |



| STREET NAME             | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST |
|-------------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|
| PALM DR                 | 1065     | 1054      | 6             | 283    | VCP           | 4131                      | 0           | 0                  | Replace Line               | LF    | 200       | 283      | \$ 56,600         | \$ 84,900    |
| HERMOSA AVE             | 1069     | C0500     | 8             | 300    | VCP           | 514A                      | 0           | 0                  | Replace Line               | LF    | 200       | 300      | \$ 60,000         | \$ 90,000    |
| BEACH DR                | 1088     | 1082      | 8             | 64     | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 64       | \$ 12,800         | \$ 19,200    |
| BEACH DR                | 1098     | 1097      | 8             | 271    | CI            | 0000                      | 114         | 3G00               | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    |
| BEACH DR                | 1099     | 1098      | 8             | 271    | CI            | 0000                      | 60          | 433B               | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    |
| CULPER CT               | 1133     | 1132      | 8             | 181    | CP            | 4100                      | 2           | 1200               | Replace Line               | LF    | 200       | 181      | \$ 36,200         | \$ 54,300    |
| PACIFIC COAST HWY       | 0687B    | 613       | 8             | 200    | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 200      | \$ 40,000         | \$ 60,000    |
| 9Th Ct                  | 1097A    | 1097      | 6             | 268    | VCP           | 4131                      | 23          | 312A               | Replace Line               | LF    | 200       | 268      | \$ 53,600         | \$ 80,400    |
| MANHATTAN AVE           | 1115C    | 1115B     | 6             | 170    | VCP           | 4100                      | 26          | 4322               | Replace Line               | LF    | 200       | 170      | \$ 34,000         | \$ 51,000    |
| 8th PL                  | 688A     | 688B      | 6             | 450    | VCP           | 4131                      | 26          | 3121               | Replace Line               | LF    | 200       | 450      | \$ 90,000         | \$ 135,000   |
| MANHATTAN AVE           | Cap      | 0141A     | 6             | 138    | VCP           | 3100                      | 4           | 4100               | Replace Line               | LF    | 200       | 138      | \$ 27,600         | \$ 41,400    |
| 14th ST                 | 1070     | 1067      | 6             | 139    | VCP           | 3600                      | 4           | 4100               | Replace Line               | LF    | 200       | 139      | \$ 27,800         | \$ 41,700    |
| LONGFELLOW AVE EASEMENT | 80       | 79        | 8             | 122    | CP            | 4100                      | 4           | 1400               | Replace Line               | LF    | 200       | 122      | \$ 24,400         | \$ 36,600    |
| HARPER AVE              | 322      | 321       | 8             | 500    | CP            | 5141                      | 212         | 3F1Z               | Replace Line               | LF    | 200       | 500      | \$ 100,000        | \$ 150,000   |
| 19TH ST                 | 326      | 325       | 8             | 278    | CP            | 4700                      | 8           | 3212               | Replace Line               | LF    | 200       | 278      | \$ 55,600         | \$ 83,400    |
| 20TH ST                 | 328      | 327       | 8             | 220    | CP            | 4200                      | 24          | 331B               | Replace Line               | LF    | 200       | 220      | \$ 44,000         | \$ 66,000    |
| PACIFIC COAST HWY       | 741      | 740       | 8             | 463    | CP            | 4100                      | 2           | 2100               | Replace Line               | LF    | 200       | 463      | \$ 92,600         | \$ 138,900   |
| PACIFIC COAST HWY       | 754      | 753       | 8             | 271    | CP            | 5142                      | 0           | 0                  | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    |
| PACIFIC COAST HWY       | 756      | 755       | 8             | 409    | CP            | 4432                      | 0           | 0                  | Replace Line               | LF    | 200       | 409      | \$ 81,800         | \$ 122,700   |
| PACIFIC COAST HWY       | 757      | 756       | 8             | 435    | CP            | 5143                      | 5           | 4111               | Replace Line               | LF    | 200       | 435      | \$ 87,000         | \$ 130,500   |
| PROSPECT AVE            | 768      | 766       | 8             | 526    | CP            | 524E                      | 6           | 3200               | Replace Line               | LF    | 200       | 526      | \$ 105,200        | \$ 157,800   |
| PROSPECT AVE            | 769      | 766       | 8             | 351    | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 351      | \$ 70,200         | \$ 105,300   |
| ALLEY                   | 777      | 774       | 8             | 144    | CP            | 5141                      | 1           | 1100               | Replace Line               | LF    | 200       | 144      | \$ 28,800         | \$ 43,200    |
| 19th ST                 | 778      | 756       | 8             | 268    | CP            | 4100                      | 4           | 2112               | Replace Line               | LF    | 200       | 268      | \$ 53,600         | \$ 80,400    |
| HILLCREST DR            | 786      | 781       | 8             | 260    | CP            | 4100                      | 84          | 3                  | Replace Line               | LF    | 200       | 260      | \$ 52,000         | \$ 78,000    |
| 17TH ST                 | 793      | 792       | 8             | 399    | CP            | 514H                      | 26          | 4136               | Replace Line               | LF    | 200       | 399      | \$ 79,800         | \$ 119,700   |
| PACIFIC COAST HWY       | 808      | 807       | 8             | 159    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 159      | \$ 31,800         | \$ 47,700    |
| PACIFIC COAST HWY       | 809      | 808       | 8             | 140.8  | CP            | 5141                      | 9           | 3300               | Replace Line               | LF    | 200       | 141      | \$ 28,160         | \$ 42,200    |
| AVIATION BLVD           | 813      | 812       | 8             | 44     | CI            | 3100                      | 0           | 0                  | Replace Line               | LF    | 200       | 44       | \$ 8,700          | \$ 13,100    |
| AVIATION BLVD           | 815      | 813       | 8             | 400.7  | CP            | 544D                      | 2           | 2100               | Replace Line               | LF    | 200       | 401      | \$ 80,140         | \$ 120,200   |
| AVIATION BLVD           | 816      | 815       | 8             | 98     | CP            | 3100                      | 4           | 4100               | Replace Line               | LF    | 200       | 98       | \$ 19,600         | \$ 29,400    |
| AVIATION BLVD           | 817      | 0816A     | 8             | 212.6  | CP            | 5242                      | 2           | 1200               | Replace Line               | LF    | 200       | 213      | \$ 42,520         | \$ 63,800    |
| OWOSSO AVE              | 835      | 817       | 8             | 191    | CP            | 5132                      | 49          | 4133               | Replace Line               | LF    | 200       | 191      | \$ 38,200         | \$ 57,300    |
| 14TH ST                 | 847      | 846       | 8             | 244.7  | CP            | 5131                      | 7           | 3122               | Replace Line               | LF    | 200       | 245      | \$ 48,940         | \$ 73,400    |
| BONNIE BRAE ST          | 851      | 847       | 8             | 113    | CP            | 514C                      | 36          | 3A00               | Replace Line               | LF    | 200       | 113      | \$ 22,600         | \$ 33,900    |
| BONNIE BRAE ST          | 852      | 851       | 8             | 525    | CP            | 4K32                      | 109         | 3F21               | Replace Line               | LF    | 200       | 525      | \$ 105,000        | \$ 157,500   |



| STREET NAME       | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST |
|-------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|
| CAMPANA ST        | 854      | 853       | 8             | 288    | CP            | 4100                      | 14          | 2700               | Replace Line               | LF    | 200       | 288      | \$ 57,600         | \$ 86,400    |
| 15th St           | 857      | 0856A     | 8             | 227    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    |
| HARPER AVE        | 324A     | 324       | 8             | 93     | VCP           | 4100                      | 1           | 1100               | Replace Line               | LF    | 200       | 93       | \$ 18,600         | \$ 27,900    |
| 24TH ST           | 764B     | 764C      | 8             | 210    | VCP           | 5141                      | 20          | 3621               | Replace Line               | LF    | 200       | 210      | \$ 42,000         | \$ 63,000    |
| 19TH ST           | 325      | 324       | 8             | 227    | CP            | 5133                      | 6           | 2114               | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    |
| 20TH PL           | 329      | 322       | 8             | 402    | CP            | 5141                      | 0           | 0                  | Replace Line               | LF    | 200       | 402      | \$ 80,400         | \$ 120,600   |
| 18TH ST           | 1165     | 779       | 8             | 165    | VCP           | 5121                      | 0           | 0                  | Replace Line               | LF    | 200       | 165      | \$ 33,000         | \$ 49,500    |
| 2ND ST            | 210      | 209       | 8             | 124    | CP            | 4200                      | 0           | 0                  | Replace Line               | LF    | 200       | 124      | \$ 24,800         | \$ 37,200    |
| 2ND ST            | 211      | 210       | 8             | 384    | CP            | 5244                      | 72          | 1P00               | Replace Line               | LF    | 200       | 384      | \$ 76,800         | \$ 115,200   |
| 1ST ST            | 221      | 220       | 8             | 422    | CP            | 4100                      | 103         | 4234               | Replace Line               | LF    | 200       | 422      | \$ 84,400         | \$ 126,600   |
| 5th ST            | 252      | 251       | 8             | 188    | CP            | 4200                      | 0           | 0                  | Replace Line               | LF    | 200       | 188      | \$ 37,600         | \$ 56,400    |
| 5TH ST            | 254      | 253       | 8             | 204    | CP            | 5141                      | 0           | 0                  | Replace Line               | LF    | 200       | 204      | \$ 40,800         | \$ 61,200    |
| 5TH ST            | 256      | 255       | 8             | 284    | CP            | 4F00                      | 5           | 3112               | Replace Line               | LF    | 200       | 284      | \$ 56,800         | \$ 85,200    |
| PROSPECT AVE      | 261      | 260       | 8             | 211    | CP            | 4100                      | 5           | 3112               | Replace Line               | LF    | 200       | 211      | \$ 42,200         | \$ 63,300    |
| PROSPECT AVE      | 263      | 262       | 8             | 165    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 165      | \$ 33,000         | \$ 49,500    |
| MASSEY ST         | 266      | 265       | 8             | 269    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 269      | \$ 53,800         | \$ 80,700    |
| HOLLOWELL AVE     | 267      | 262       | 8             | 472    | CP            | 5144                      | 3           | 2111               | Replace Line               | LF    | 200       | 472      | \$ 94,400         | \$ 141,600   |
| HOLLOWELL AVE     | 268      | 261       | 8             | 180    | CP            | 5143                      | 0           | 0                  | Replace Line               | LF    | 200       | 180      | \$ 36,000         | \$ 54,000    |
| HOPKINS ST        | 274      | 272       | 8             | 213    | CP            | 5142                      | 13          | 4133               | Replace Line               | LF    | 200       | 213      | \$ 42,600         | \$ 63,900    |
| 3RD ST            | 280      | 279       | 8             | 322    | CP            | 5142                      | 5           | 3121               | Replace Line               | LF    | 200       | 322      | \$ 64,400         | \$ 96,600    |
| PACIFIC COAST HWY | 615      | 614       | 10            | 107    | CP            | 4131                      | 0           | 0                  | Replace Line               | LF    | 235       | 107      | \$ 25,145         | \$ 37,700    |
| AVIATION BLVD     | 619      | 618       | 8             | 251    | CP            | 4131                      | 2           | 1200               | Replace Line               | LF    | 200       | 251      | \$ 50,200         | \$ 75,300    |
| AVIATION BLVD     | 621      | 620       | 8             | 93     | CP            | 5141                      | 6           | 3121               | Replace Line               | LF    | 200       | 93       | \$ 18,600         | \$ 27,900    |
| AVIATION BLVD     | 624      | 623       | 8             | 113    | CP            | 4600                      | 0           | 0                  | Replace Line               | LF    | 200       | 113      | \$ 22,600         | \$ 33,900    |
| AVIATION BLVD     | 626      | 625       | 8             | 85     | CP            | 5141                      | 4           | 4100               | Replace Line               | LF    | 200       | 85       | \$ 17,000         | \$ 25,500    |
| AVIATION BLVD     | 627      | 626       | 8             | 185    | CP            | 4100                      | 15          | 3500               | Replace Line               | LF    | 200       | 185      | \$ 37,000         | \$ 55,500    |
| AVIATION BLVD     | 628      | 627       | 8             | 144    | CP            | 4100                      | 66          | 3C00               | Replace Line               | LF    | 200       | 144      | \$ 28,800         | \$ 43,200    |
| 10TH ST           | 636      | 635       | 8             | 336.3  | CP            | 5241                      | 35          | 4137               | Replace Line               | LF    | 200       | 336      | \$ 67,260         | \$ 100,900   |
| 11TH PL           | 640      | 639       | 8             | 184    | CP            | 4631                      | 8           | 4121               | Replace Line               | LF    | 200       | 184      | \$ 36,800         | \$ 55,200    |
| 9TH ST            | 651      | 650       | 8             | 301    | CP            | 5342                      | 130         | 412N               | Replace Line               | LF    | 200       | 301      | \$ 60,200         | \$ 90,300    |
| 7TH ST            | 667      | 666       | 8             | 57     | CP            | 4100                      | 8           | 3115               | Replace Line               | LF    | 200       | 57       | \$ 11,400         | \$ 17,100    |
| 7TH ST            | 668      | 667       | 8             | 379    | CP            | 4131                      | 76          | 511P               | Replace Line               | LF    | 200       | 379      | \$ 75,800         | \$ 113,700   |
| PROSPECT AVE      | 670      | 669       | 8             | 264    | CP            | 4131                      | 51          | 1K00               | Replace Line               | LF    | 200       | 264      | \$ 52,800         | \$ 79,200    |
| 7TH ST            | 677      | 669       | 8             | 295    | CP            | 4H12                      | 0           | 0                  | Replace Line               | LF    | 200       | 295      | \$ 59,000         | \$ 88,500    |
| PROSPECT AVE      | 679      | 669       | 8             | 224    | CP            | 4100                      | 24          | 3800               | Replace Line               | LF    | 200       | 224      | \$ 44,800         | \$ 67,200    |
| 7TH PL            | 680      | 679       | 8             | 438    | CP            | 5142                      | 81          | 4132               | Replace Line               | LF    | 200       | 438      | \$ 87,600         | \$ 131,400   |



| STREET NAME       | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST |
|-------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|
| CAMPANA ST        | 854      | 853       | 8             | 288    | CP            | 4100                      | 14          | 2700               | Replace Line               | LF    | 200       | 288      | \$ 57,600         | \$ 86,400    |
| 15th St           | 857      | 0856A     | 8             | 227    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    |
| HARPER AVE        | 324A     | 324       | 8             | 93     | VCP           | 4100                      | 1           | 1100               | Replace Line               | LF    | 200       | 93       | \$ 18,600         | \$ 27,900    |
| 24TH ST           | 764B     | 764C      | 8             | 210    | VCP           | 5141                      | 20          | 3621               | Replace Line               | LF    | 200       | 210      | \$ 42,000         | \$ 63,000    |
| 19TH ST           | 325      | 324       | 8             | 227    | CP            | 5133                      | 6           | 2114               | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    |
| 20TH PL           | 329      | 322       | 8             | 402    | CP            | 5141                      | 0           | 0                  | Replace Line               | LF    | 200       | 402      | \$ 80,400         | \$ 120,600   |
| 18TH ST           | 1165     | 779       | 8             | 165    | VCP           | 5121                      | 0           | 0                  | Replace Line               | LF    | 200       | 165      | \$ 33,000         | \$ 49,500    |
| 2ND ST            | 210      | 209       | 8             | 124    | CP            | 4200                      | 0           | 0                  | Replace Line               | LF    | 200       | 124      | \$ 24,800         | \$ 37,200    |
| 2ND ST            | 211      | 210       | 8             | 384    | CP            | 5244                      | 72          | 1P00               | Replace Line               | LF    | 200       | 384      | \$ 76,800         | \$ 115,200   |
| 1ST ST            | 221      | 220       | 8             | 422    | CP            | 4100                      | 103         | 4234               | Replace Line               | LF    | 200       | 422      | \$ 84,400         | \$ 126,600   |
| 5th ST            | 252      | 251       | 8             | 188    | CP            | 4200                      | 0           | 0                  | Replace Line               | LF    | 200       | 188      | \$ 37,600         | \$ 56,400    |
| 5TH ST            | 254      | 253       | 8             | 204    | CP            | 5141                      | 0           | 0                  | Replace Line               | LF    | 200       | 204      | \$ 40,800         | \$ 61,200    |
| 5TH ST            | 256      | 255       | 8             | 284    | CP            | 4F00                      | 5           | 3112               | Replace Line               | LF    | 200       | 284      | \$ 56,800         | \$ 85,200    |
| PROSPECT AVE      | 261      | 260       | 8             | 211    | CP            | 4100                      | 5           | 3112               | Replace Line               | LF    | 200       | 211      | \$ 42,200         | \$ 63,300    |
| PROSPECT AVE      | 263      | 262       | 8             | 165    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 165      | \$ 33,000         | \$ 49,500    |
| MASSEY ST         | 266      | 265       | 8             | 269    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 269      | \$ 53,800         | \$ 80,700    |
| HOLLOWELL AVE     | 267      | 262       | 8             | 472    | CP            | 5144                      | 3           | 2111               | Replace Line               | LF    | 200       | 472      | \$ 94,400         | \$ 141,600   |
| HOLLOWELL AVE     | 268      | 261       | 8             | 180    | CP            | 5143                      | 0           | 0                  | Replace Line               | LF    | 200       | 180      | \$ 36,000         | \$ 54,000    |
| HOPKINS ST        | 274      | 272       | 8             | 213    | CP            | 5142                      | 13          | 4133               | Replace Line               | LF    | 200       | 213      | \$ 42,600         | \$ 63,900    |
| 3RD ST            | 280      | 279       | 8             | 322    | CP            | 5142                      | 5           | 3121               | Replace Line               | LF    | 200       | 322      | \$ 64,400         | \$ 96,600    |
| PACIFIC COAST HWY | 615      | 614       | 10            | 107    | CP            | 4131                      | 0           | 0                  | Replace Line               | LF    | 235       | 107      | \$ 25,145         | \$ 37,700    |
| AVIATION BLVD     | 619      | 618       | 8             | 251    | CP            | 4131                      | 2           | 1200               | Replace Line               | LF    | 200       | 251      | \$ 50,200         | \$ 75,300    |
| AVIATION BLVD     | 621      | 620       | 8             | 93     | CP            | 5141                      | 6           | 3121               | Replace Line               | LF    | 200       | 93       | \$ 18,600         | \$ 27,900    |
| AVIATION BLVD     | 624      | 623       | 8             | 113    | CP            | 4600                      | 0           | 0                  | Replace Line               | LF    | 200       | 113      | \$ 22,600         | \$ 33,900    |
| AVIATION BLVD     | 626      | 625       | 8             | 85     | CP            | 5141                      | 4           | 4100               | Replace Line               | LF    | 200       | 85       | \$ 17,000         | \$ 25,500    |
| AVIATION BLVD     | 627      | 626       | 8             | 185    | CP            | 4100                      | 15          | 3500               | Replace Line               | LF    | 200       | 185      | \$ 37,000         | \$ 55,500    |
| AVIATION BLVD     | 628      | 627       | 8             | 144    | CP            | 4100                      | 66          | 3C00               | Replace Line               | LF    | 200       | 144      | \$ 28,800         | \$ 43,200    |
| 10TH ST           | 636      | 635       | 8             | 336.3  | CP            | 5241                      | 35          | 4137               | Replace Line               | LF    | 200       | 336      | \$ 67,260         | \$ 100,900   |
| 11TH PL           | 640      | 639       | 8             | 184    | CP            | 4631                      | 8           | 4121               | Replace Line               | LF    | 200       | 184      | \$ 36,800         | \$ 55,200    |
| 9TH ST            | 651      | 650       | 8             | 301    | CP            | 5342                      | 130         | 412N               | Replace Line               | LF    | 200       | 301      | \$ 60,200         | \$ 90,300    |
| 7TH ST            | 667      | 666       | 8             | 57     | CP            | 4100                      | 8           | 3115               | Replace Line               | LF    | 200       | 57       | \$ 11,400         | \$ 17,100    |
| 7TH ST            | 668      | 667       | 8             | 379    | CP            | 4131                      | 76          | 511P               | Replace Line               | LF    | 200       | 379      | \$ 75,800         | \$ 113,700   |
| PROSPECT AVE      | 670      | 669       | 8             | 264    | CP            | 4131                      | 51          | 1K00               | Replace Line               | LF    | 200       | 264      | \$ 52,800         | \$ 79,200    |
| 7TH ST            | 677      | 669       | 8             | 295    | CP            | 4H12                      | 0           | 0                  | Replace Line               | LF    | 200       | 295      | \$ 59,000         | \$ 88,500    |
| PROSPECT AVE      | 679      | 669       | 8             | 224    | CP            | 4100                      | 24          | 3800               | Replace Line               | LF    | 200       | 224      | \$ 44,800         | \$ 67,200    |
| 7TH PL            | 680      | 679       | 8             | 438    | CP            | 5142                      | 81          | 4132               | Replace Line               | LF    | 200       | 438      | \$ 87,600         | \$ 131,400   |





| STREET NAME              | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST  |
|--------------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|---------------|
| 7TH PL                   | 681      | 680       | 8             | 381    | CP            | 5141                      | 21          | 3700               | Replace Line               | LF    | 200       | 381      | \$ 76,200         | \$ 114,300    |
| EASEMENT                 | 652A     | 652       | 8             | 200    | CP            | 4200                      | 0           | 0                  | Replace Line               | LF    | 200       | 200      | \$ 40,000         | \$ 60,000     |
| ALLEY                    | 663      | 662       | 6             | 134    | CP            | 5242                      | 2           | 2100               | Replace Line               | LF    | 200       | 134      | \$ 26,800         | \$ 40,200     |
| 7TH ST                   | 666      | 665       | 8             | 209    | CP            | 4G11                      | 5           | 1500               | Replace Line               | LF    | 200       | 209      | \$ 41,800         | \$ 62,700     |
| Subtotal                 |          |           |               | 36,768 |               |                           |             |                    |                            |       |           | 36,768   | \$ 7,367,000      | \$ 11,051,000 |
|                          |          |           |               |        |               |                           |             |                    |                            |       |           |          |                   |               |
| 13TH ST                  | 0844A    | 808       | 8             | 245    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 245      | \$ 13,475         | \$ 20,200     |
| ALLEY                    | 774      | 761       | 8             | 117    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 117      | \$ 6,435          | \$ 9,700      |
| PORTER LN                | 732      | 731       | 8             | 219    | VCP           | 0000                      | 11          | 4231               | Line Entire Segment        | LF    | 55        | 219      | \$ 12,045         | \$ 18,100     |
| 34th PL                  | 40       | 39        | 6             | 281    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 281      | \$ 15,455         | \$ 23,200     |
| 28th Ct                  | 55       | 54        | 8             | 406    | VCP           | 0000                      | 9           | 5141               | Line Entire Segment        | LF    | 55        | 406      | \$ 22,330         | \$ 33,500     |
| 33rd PL                  | 91       | 90        | 8             | 272    | VCP           | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 272      | \$ 14,960         | \$ 22,400     |
| VALLEY PARK              | 571      | 514       | 8             | 313    | CP            | 0000                      | 7           | 5121               | Line Entire Segment        | LF    | 55        | 313      | \$ 17,215         | \$ 25,800     |
| 29th CT                  | 0526A    | 526       | 8             | 20     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 20       | \$ 1,100          | \$ 1,700      |
| 28th CT                  | 532      | 531       | 8             | 242    | VCP           | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 242      | \$ 13,310         | \$ 20,000     |
| 24th PL                  | 587      | 508       | 8             | 354    | CP            | 0000                      | 22          | 4432               | Line Entire Segment        | LF    | 55        | 354      | \$ 19,470         | \$ 29,200     |
| POWER ST EASEMENT        | 0504A    | 0504B     | 15            | 360    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 76        | 360      | \$ 27,360         | \$ 41,000     |
| POWER ST EASEMENT        | 0504A    | 0504B     | 15            | 360    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 76        | 360      | \$ 27,360         | \$ 41,000     |
| MYRTLE AVE EASEMENT      | 110      | 109       | 8             | 260    | CP            | 0000                      | 16          | 4400               | Line Entire Segment        | LF    | 55        | 260      | \$ 14,300         | \$ 21,500     |
| VALLEY PARK AVE          | 597      | 596       | 8             | 121    | VCP           | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 121      | \$ 6,655          | \$ 10,000     |
| 16th ST                  | 751      | 722       | 8             | 290    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 290      | \$ 15,950         | \$ 23,900     |
| 25th St                  | 105      | 104       | 8             | 270    | CP            | 0000                      | 11          | 4231               | Line Entire Segment        | LF    | 55        | 270      | \$ 14,850         | \$ 22,300     |
| 25th St                  | 105      | 104       | 8             | 270    | CP            | 0000                      | 18          | 4332               | Line Entire Segment        | LF    | 55        | 270      | \$ 14,850         | \$ 22,300     |
| 25th St                  | 1153     | 1152      | 8             | 109    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 109      | \$ 5,995          | \$ 9,000      |
| 24th ST                  | 1039     | 1038      | 8             | 138    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 138      | \$ 7,590          | \$ 11,400     |
| LONGFELLOW AVE EASEMENT  | 81       | 0081A     | 8             | 394    | CP            | 0000                      | 15          | 4331               | Line Entire Segment        | LF    | 55        | 394      | \$ 21,670         | \$ 32,500     |
| HERMOSA VIEW DR          | 570      | 569       | 8             | 161    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 161      | \$ 8,855          | \$ 13,300     |
| HERMOSA VIEW DR EASEMENT | C/O      | 569       | 8             | 132    | VCP           | 0000                      | 30          | 5144               | Line Entire Segment        | LF    | 55        | 132      | \$ 7,260          | \$ 10,900     |
| HERMOSA AVE              | 1155     | 1156      | 8             | 275    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 275      | \$ 15,125         | \$ 22,700     |
| 21st St                  | 1056     | 1055      | 8             | 48     | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 48       | \$ 2,640          | \$ 4,000      |
| PIER AVE                 | 806      | 805       | 8             | 339    | CP            | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 339      | \$ 18,645         | \$ 28,000     |
| PORTER LN EASEMENT       | 581      | 580       | 8             | 139    | VCP           | 0000                      | 16          | 4400               | Line Entire Segment        | LF    | 55        | 139      | \$ 7,645          | \$ 11,500     |
| PORTER LN EASEMENT       | 578      | 577       | 8             | 139    | VCP           | 0000                      | 15          | 4331               | Line Entire Segment        | LF    | 55        | 139      | \$ 7,645          | \$ 11,500     |
| VALLEY PARK EASEMENT     | 575      | 513       | 8             | 274    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 274      | \$ 15,070         | \$ 22,600     |
| VALLEY PARK EASEMENT     | 575      | 513       | 8             | 274    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 274      | \$ 15,070         | \$ 22,600     |
| VALLEY PARK AVE EASEMENT | 602      | 502       | 12            | 160    | POLY          | 0000                      | 100         | 4D00               | Line Entire Segment        | LF    | 68        | 160      | \$ 10,880         | \$ 16,300     |
| 19th St                  | 1066     | 1020      | 6             | 303    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 303      | \$ 16,665         | \$ 25,000     |



| STREET NAME                 | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST |
|-----------------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|
| PALM DR                     | 1063     | 1063B     | 8             | 200    | CP            | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 200      | \$ 11,000         | \$ 16,500    |
| PALM DR                     | 1053     | 1036      | 6             | 353    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 353      | \$ 19,415         | \$ 29,100    |
| PACIFIC COAST HWY- EASEMENT | 812      | 811       | 8             | 136    | CP            | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 136      | \$ 7,480          | \$ 11,200    |
| 7TH ST                      | 669      | 668       | 8             | 53     | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 53       | \$ 2,915          | \$ 4,400     |
| HILL ST                     | 236      | 232A      | 8             | 38     | OTHER         | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 38       | \$ 2,090          | \$ 3,100     |
| 2ND ST                      | 231      | CO230     | 8             | 100    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 100      | \$ 5,500          | \$ 8,300     |
| THE STRAND                  | 1093B    | 1093A     | 6             | 79     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 79       | \$ 4,345          | \$ 6,500     |
| THE STRAND                  | 1093B    | 1093A     | 6             | 79     | PVC           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 79       | \$ 4,345          | \$ 6,500     |
| SPRINGFIELD AVE             | 747      | 745       | 8             | 183    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 183      | \$ 10,065         | \$ 15,100    |
| 8Th Pl                      | 688B     | 688       | 8             | 35     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 35       | \$ 1,925          | \$ 2,900     |
| ARDMORE AVE                 | 725      | 724       | 8             | 397    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 397      | \$ 21,835         | \$ 32,800    |
| 13th CT                     | 1091     | 1160      | 10            | 174    | VCP           | 0000                      | 8           | 4200               | Line Entire Segment        | LF    | 68        | 174      | \$ 11,832         | \$ 17,700    |
| BARD ST                     | 0703A    | 703       | 6             | 216    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 216      | \$ 11,880         | \$ 17,800    |
| PALM DR                     | 1068A    | 1068      | 8             | 128    | VCP           | 0000                      | 22          | 4432               | Line Entire Segment        | LF    | 55        | 128      | \$ 7,040          | \$ 10,600    |
| PACIFIC COAST HWY           | 289      | 288       | 8             | 248    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 248      | \$ 13,640         | \$ 20,500    |
| MONTEREY BLVD               | 151      | CO150     | 8             | 15     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 15       | \$ 825            | \$ 1,200     |
| PIER AVE                    | 805      | 606       | 8             | 170    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 170      | \$ 9,350          | \$ 14,000    |
| HERONDO ST                  | 176      | 172       | 8             | 306    | CP            | 0000                      | 11          | 4231               | Line Entire Segment        | LF    | 55        | 306      | \$ 16,830         | \$ 25,200    |
| VALLEY DR EASEMENT          | 703      | 609       | 6             | 171    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 171      | \$ 9,405          | \$ 14,100    |
| 2nd St                      | 1127     | 1004      | 8             | 54     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 54       | \$ 2,970          | \$ 4,500     |
| VALLEY DR                   | 605      | 604       | 15            | 328    | VCP           | 0000                      | 260         | 4N00               | Line Entire Segment        | LF    | 76        | 328      | \$ 24,928         | \$ 37,400    |
| PALM DR                     | 1126     | 1125      | 6             | 437    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 437      | \$ 24,035         | \$ 36,100    |
| MANHATTAN AVE               | 1124     | 1120      | 8             | 235    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 235      | \$ 12,925         | \$ 19,400    |
| 28th Ct                     | 55       | 54        | 8             | 250    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 250      | \$ 13,750         | \$ 20,600    |
| 28th Ct                     | 55       | 54        | 8             | 250    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 250      | \$ 13,750         | \$ 20,600    |
| 28th Ct                     | 55       | 54        | 8             | 220    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 220      | \$ 12,100         | \$ 18,200    |
| HERMOSA AVE                 | 1108     | 1007      | 8             | 45     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 45       | \$ 2,475          | \$ 3,700     |
| HERONDO ST                  | 1132H    | TRNK      | 10            | 79     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 68        | 79       | \$ 5,372          | \$ 8,100     |
| 1ST ST                      | 204A     | 203       | 8             | 45     | CP            | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 55        | 45       | \$ 2,475          | \$ 3,700     |
| 2ND ST                      | 234      | 233       | 8             | 139    | VCP           | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 55        | 139      | \$ 7,645          | \$ 11,500    |
| 10Th Ct                     | 1096A    | 1096      | 6             | 291    | VCP           | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 55        | 291      | \$ 16,005         | \$ 24,000    |
| POWER ST EASEMENT           | 503      | 1166      | 15            | 170    | VCP           | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 76        | 170      | \$ 12,920         | \$ 19,400    |
| PACIFIC COAST HWY           | Cap      | 759       | 8             | 156    | CP            | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 55        | 156      | \$ 8,580          | \$ 12,900    |
| 25th ST EASEMENT            | 511      | 510       | 10            | 192    | VCP           | 2100                      | 8           | 4200               | Line Entire Segment        | LF    | 79        | 192      | \$ 15,168         | \$ 22,800    |
| GOULD AVE                   | 538      | 537       | 8             | 163    | VCP           | 2111                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 163      | \$ 8,965          | \$ 13,400    |
| 19th St                     | 1066     | 1020      | 6             | 303    | VCP           | 2211                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 303      | \$ 16,665         | \$ 25,000    |



| STREET NAME         | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST  |
|---------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|---------------|
| HILL ST             | 236      | 232A      | 6             | 38     | VCP           | 1100                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 38       | \$ 2,090          | \$ 3,100      |
| EASEMENT            | 201      | CO200     | 8             | 100    | VCP           | 1100                      | 8           | 4200               | Line Entire Segment        | LF    | 55        | 100      | \$ 5,500          | \$ 8,300      |
| 10Th Ct             | 1096A    | 1096      | 6             | 291    | VCP           | 1100                      | 8           | 5131               | Line Entire Segment        | LF    | 55        | 291      | \$ 16,005         | \$ 24,000     |
| BEACH DR            | 1142A    | 1142      | 6             | 96     | VCP           | 2100                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 96       | \$ 5,280          | \$ 7,900      |
| 3rd St              | 245      | 244       | 8             | 150    | CP            | 2100                      | 105         | 4D11               | Line Entire Segment        | LF    | 55        | 150      | \$ 8,250          | \$ 12,400     |
| MONTGOMERY DR       | 867      | 840       | 6             | 310    | CP            | 1100                      | 11          | 4231               | Line Entire Segment        | LF    | 55        | 310      | \$ 17,050         | \$ 25,600     |
| HARPER AVE-EASEMENT | 324E     | 324G      | 8             | 73     | VCP           | 2100                      | 7           | 5121               | Line Entire Segment        | LF    | 55        | 73       | \$ 4,015          | \$ 6,000      |
| Subtotal            |          |           |               | 14,781 |               |                           |             |                    |                            |       |           | 13,761   | \$ 849,000        | \$ 1,273,000  |
| Grand Total         |          |           |               | 51,549 |               |                           |             |                    |                            |       |           | 50,529   | \$ 8,216,000      | \$ 12,324,000 |



**SEWER SYSTEM OPERATION AND MAINTENANCE DEFECTS**

O&M defects include roots and fats, oil, and grease deposits (FOG). Roots occur at pipe joints and at lateral connections. As part of the sewer CCTV conducted for the project, sewers were cleaned in front of the sewer videotaping. However, sewers with different magnitudes of root growth and FOG were still evident. Sewers with high, moderate, or light root growth or FOG are shown in the CCTV reports. “High” is primarily Category 4 and 5 defects; “Moderate” is primarily Category 3 defects or a high number of Category 2 defects; and “Light” is primarily Category 2 defects.



Figure 5-3: Sewer System Defects Recommended for Rehabilitation



## MANHOLE INSPECTIONS

Manhole inspections were performed to determine the condition of the key components of the manholes and to observe and document any defects. A total of 771 manholes were inspected for condition assessment. Figure 5-4 shows a map of the inspected manholes.

### MANHOLE INSPECTION DEFECTS

Many of the inspected manholes have multiple defects. Therefore, to quantify the necessary work, some manholes have been counted more than once below:

- 36 manholes have frame or frame seal defects. These include broken frame seals or cracks in the frame.
- 108 manholes have defects within the cone, chimney, or the wall sections
- 33 manholes have defects within the bench or trough sections
- 28 manholes have corroded, or missing steps
- 54 manholes have a combination of defects

Figure 5-5 shows a color-coded map of manholes and grouping of their defects.

The rehabilitation of manholes can be complicated and there are many methods available for the rehabilitation of manholes. Each method must be evaluated to determine its applicability to provide the correct solution for the best available price. Based on the type of defects identified during our survey as well as the age of the manholes surveyed, we have narrowed our rehabilitation recommendation to two main methods. These are manhole lining and manhole replacement.

At this phase, we have excluded from rehabilitation recommendation, manholes that only have defective steps. This is mainly because OSHA regulations require use of specialized equipment for confined space entry; therefore, steps should never be utilized for personnel accessing manholes. However, we do recommend that these defects be addressed as part of an overall and phased manhole rehabilitation for improved safety.

Table 5-4 lists the manholes recommended for improvements, and Figure 5-6 shows the manholes recommended for improvements

**Table 5-3: Manhole Defect Grade Descriptions**

| Defects Grade | Description                                         |
|---------------|-----------------------------------------------------|
| 5 – Severe    | Severe defects requiring immediate attention        |
| 4 – Heavy     | Defects that will become Grade 5 in the near future |
| 3 – Moderate  | Defects that will continue to deteriorate           |
| 2 – Fair      | Defects that have not begun to deteriorate          |
| 1 – Light     | Minor defects                                       |





Figure 5-4: Inspected Manholes





Figure 5-5: Manhole Defects



**Table 5-4: Manholes Recommended for Rehabilitation**

| MH #  | Defect Type      | Recommended Rehabilitation | Units | Quantity | Construction Cost Estimate | Capital Cost Estimate |
|-------|------------------|----------------------------|-------|----------|----------------------------|-----------------------|
| 0061  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0062  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0071  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0072  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0074  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0082  | Cone Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0084  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0086  | Bench Defects    | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0112  | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0123  | Bench Defects    | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0324  | Step Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0325  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0507  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0509  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0515  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0518  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0520  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0534  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0540  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0726  | Wall Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0728  | Step Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0737  | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0740  | Wall Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0744  | Wall Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0746  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0752  | Bench Defects    | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0758  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0765  | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0766  | Step Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0774  | Bench Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0778  | Step Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0781  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0782  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0783  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0800  | Bench Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0859  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1025  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1028  | Chimney Defects  | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1046  | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 1057  | Bench Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1058  | Cone Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 1083  | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0123A | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1059A | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |



# CHAPTER 5- SEWER CCTV INVESTIGATIONS

| MH # | Defect Type      | Recommended Rehabilitation | Units | Quantity | Construction Cost Estimate | Capital Cost Estimate |
|------|------------------|----------------------------|-------|----------|----------------------------|-----------------------|
| 0141 | Bench Defects    | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0204 | Cone Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0210 | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0216 | Step Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0222 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0225 | Cone Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0241 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0254 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0256 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0259 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0263 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0266 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0272 | Cone Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0277 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0281 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0282 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0283 | Cone Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0284 | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0285 | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0286 | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0291 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0302 | Wall Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0313 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0612 | Cone Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0634 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0679 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0681 | Chimney Defects  | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0689 | Cone Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0693 | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0694 | Step Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0717 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0718 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0719 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0816 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0827 | Cone Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0831 | Bench Defects    | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0833 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0835 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0836 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0837 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0838 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0844 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0847 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0851 | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0857 | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |



# CHAPTER 5- SEWER CCTV INVESTIGATIONS

| MH #  | Defect Type      | Recommended Rehabilitation | Units | Quantity | Construction Cost Estimate | Capital Cost Estimate |
|-------|------------------|----------------------------|-------|----------|----------------------------|-----------------------|
| 0861  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0862  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0866  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1132  | Wall Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0006  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0028  | Step Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0032  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0033  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0034  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0039  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0041  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0043  | Wall Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0045  | Cone Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0088  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0089  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0090  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0104  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0108  | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0111  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0508  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0513  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0514  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0589  | Chimney Defects  | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 1032  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1037  | Wall Defects     | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 1039  | Bench Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1044  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0036A | Bench Defects    | Manhole Rehabilitation     | EA    | 1        | \$ 7,000                   | \$ 10,500             |
| 0173  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0175  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0243  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0245  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0246  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0247  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1096  | Chimney Defects  | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 1132H | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0731  | Multiple Defects | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0751  | Cone Defects     | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0812  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0842  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
| 0669  | Frame Defects    | Manhole Replacement        | EA    | 1        | \$ 10,000                  | \$ 15,000             |
|       |                  |                            |       | 130      | \$ 1,207,000               | \$ 1,810,500          |





Figure 5-6: Manholes Recommended for Improvements





# CHAPTER 6 IMPROVEMENT PROGRAM

## PROJECTS OVERVIEW

A Capital Improvement Program (CIP) is a planning tool that includes a description of the proposed improvement projects, an estimate of project costs and a year-by-year schedule of expected project funding. This chapter also recommends monitoring for pipes that do not exceed but are close to the capacity threshold. Capital project are both capacity-limited pipe replacements determined from hydraulic modeling and structural deficiencies determined from CCTV evaluation.

## MONITORING LOCATIONS

Pipes with peak  $d/D$  between 0.5 and 0.75 should be monitored for higher  $d/D$  or signs of surcharge. Figure 6-1 and Table 6-1 (to be updated) show the segments in blue with a model-predicted peak  $d/D$  exceeding 0.5 but below the threshold value of 0.75 under existing peak dry weather flow conditions. Although no capital improvement projects are recommended to address this range of  $d/D$ , it is recommended that the City field verify the actual flow depths at these locations during peak hours. If field observations indicate higher  $d/D$  values, or if there is any future development that is directly tributary to these segments, proactive mitigation measures should be considered.





Figure 6-1: High d/D Sewer Segments to Monitor

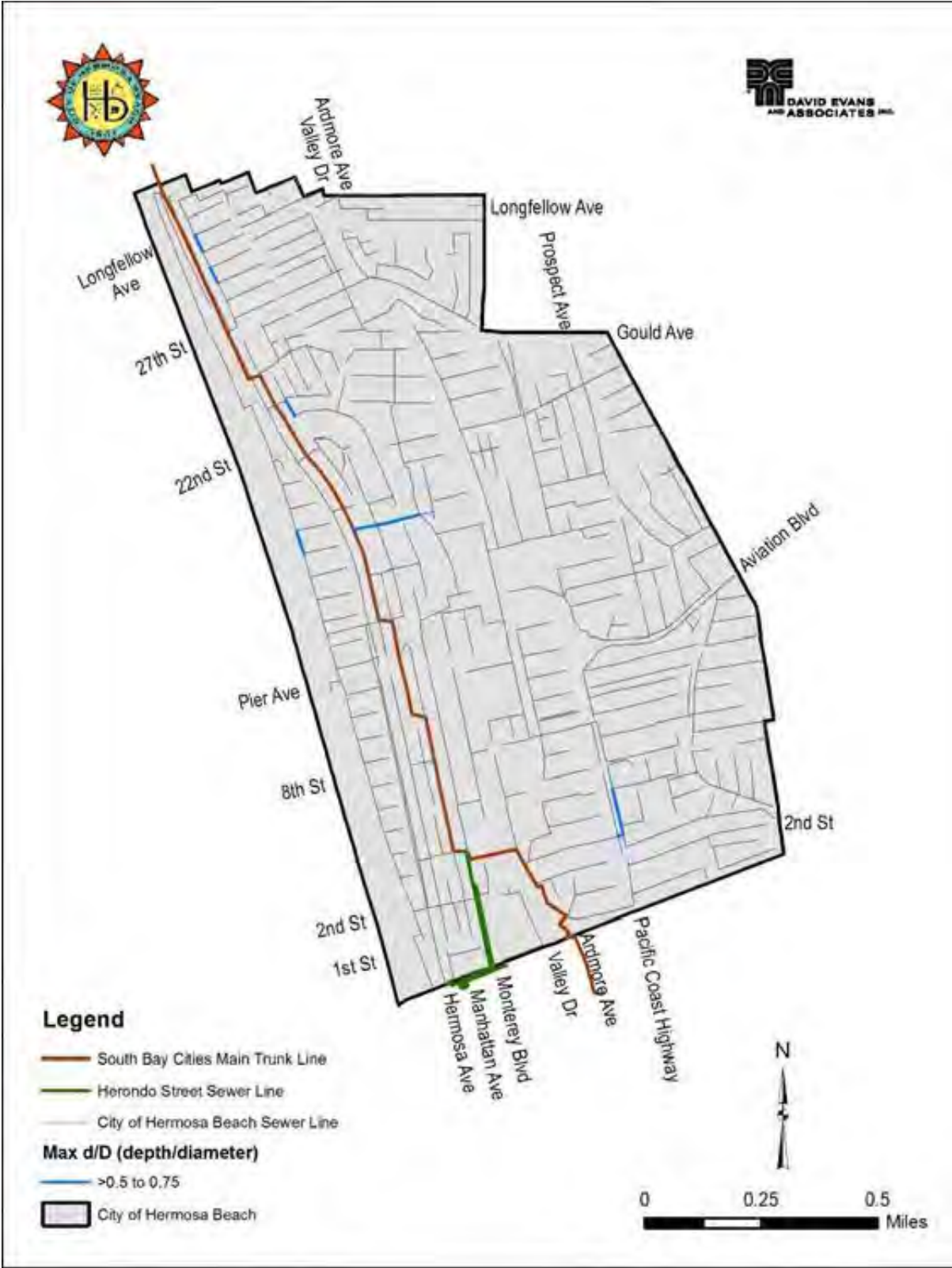


**Table 6-1: List of High d/D Sewer Segments to Monitor**

| No. | Pipe ID   | Max d/D |
|-----|-----------|---------|
| 1   | 1043-1037 | 0.693   |
| 2   | 248-249   | 0.657   |
| 3   | 249-250   | 0.612   |
| 4   | 250-251   | 0.555   |
| 5   | 1003-1002 | 0.543   |
| 6   | 1079-1078 | 0.505   |
| 7   | 502-501   | 0.509   |
| 8   | 501-C05   | 0.501   |

## CAPITAL IMPROVEMENT PROJECTS

The calibrated hydraulic model was used to optimize sizing for proposed improvements and to proactively address the identified potential capacity problems. The proposed pipe replacements were sized according to the capacity criteria presented in Chapter 3 to convey peak dry weather flows while providing reserve capacity for potential inflow and infiltration during wet weather flow conditions.

One capacity improvement project comprised of three sewer segments (715 linear feet of replacement sewer) is recommended for upsizing the existing sewers to alleviate the identified capacity deficiency. It is recommended the replacement sewer follow the same alignment as the existing sewer. Figure 6-2 shows the location of the project in orange and Table 6-2 provides detailed information for each pipe segment recommended for replacement. Note that some segments in the project may not have a capacity deficiency, possibly due to a steeper slope; however, it is generally considered good engineering practice to avoid constricting and expanding pipe sizes through a consecutive reach. Therefore, all sewer segments in a given project are recommended for replacement with the same larger size.

Approximately 222,000 linear feet (42 miles) of City sewers were videotaped using closed circuit television (CCTV), which is essentially 100% of the City's total collection system. Among the sewers that were condition surveyed by CCTV, a total of 36,768 lf (7 miles) of sewer segments had significant defects that warrant replacement of the sewers. Lining rehabilitation is recommended for 14,345 lf (2.7 miles) of videotaped sewer segments. These categories have been further refined to escalating priorities. All pipe replacements have been categorized into Priority A (High), and Priority B (Moderate), based on their defects ratings. There is 3,302 LF of Priority A recommended rehabilitations and a total of 28,157 LF of Priority B recommended rehabilitations. Similarly, all pipe relining recommendations have been categorized into Priority C (High), and Priority D (Moderate), based on their level of defects. There is 13,065 LF of Priority C recommended rehabilitations and 1,716 LF of Priority D recommended rehabilitations.

It is recommended that the City take advantage of concurrent construction opportunities such as street paving projects or adjacent infrastructure work to implement the proposed pipeline projects.



Figure 6-2: Recommended Capacity Improvement Project Locations

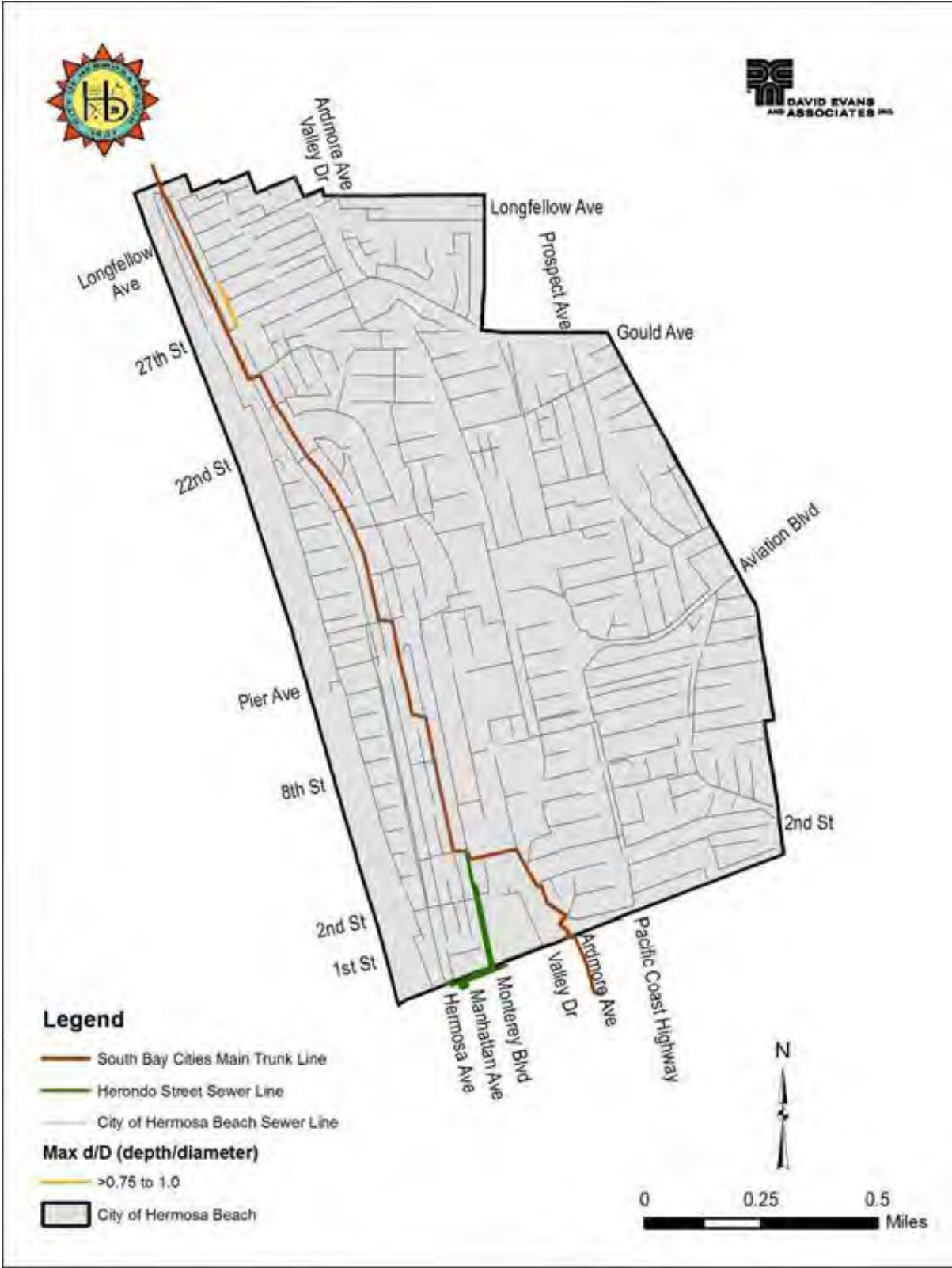


**Table 6-2: Capacity Deficiency Improvement Project Segments**

| Pipe ID | US MH | DS MH | Existing Pipe Size (in) | Proposed Pipe Size (in) | Pipe Length (ft) | Slope (%) | Peak Flow (cfs) | Peak Velocity (ft/s) | Existing Max d/D | Proposed CIPs Max d/D |
|---------|-------|-------|-------------------------|-------------------------|------------------|-----------|-----------------|----------------------|------------------|-----------------------|
| 21-C02  | 0021  | C0020 | 8                       | 10                      | 70.1             | 4.2       | 0.66            | 5.43                 | 0.38             | 0.28                  |
| 22-21   | 0022  | 0021  | 8                       | 10                      | 93.1             | 8.2       | 0.66            | 6.90                 | 0.32             | 0.24                  |
| 23-22   | 0023  | 0022  | 8                       | 10                      | 107.6            | 0.4       | 0.66            | 1.88                 | 1.00             | 0.54                  |
| 24-23   | 0024  | 0023  | 8                       | 10                      | 220.1            | 0.3       | 0.58            | 1.65                 | 1.00             | 0.56                  |
| 25-24   | 0025  | 0024  | 8                       | 10                      | 224.5            | 0.3       | 0.51            | 1.74                 | 0.78             | 0.51                  |

## CAPITAL COST ESTIMATES

For the purpose of this project, it was assumed that the hydraulically deficient sewers would be replaced with larger sizes of VCP sewers along the same alignment. The costs for open-cut sewer replacement are generally more conservative than adding new parallel sewers, and thus would give the City more flexibility from a financial perspective. The feasibility of installing parallel sewers in lieu of replacing and upsizing existing sewers should be evaluated in design phase, considering potential conflict with other existing underground utilities and separation distance requirements.

The final material for replacement sewers should be evaluated during design. However, the construction cost of VCP sewers is generally conservative and suitable for budgetary purpose, especially compared to PVC which is another popular material specified by agencies for gravity sewers application.

Table 6-3 presents the construction unit cost that was used in the cost estimates. Note the presented construction unit cost in Table 6-3 already includes the cost for traffic control, pavement replacement, mobilization, demobilization, flow bypassing, and lateral reconnection and were developed based on the consultant's recent construction experience in southern California projects. The presented costs are based on today's dollars (2017).



Table 6-3: Construction Unit Cost Estimates

| Item                                                          | Estimated Construction Unit Cost |
|---------------------------------------------------------------|----------------------------------|
| <b>8-inch</b> Sewer Open Cut Replacement                      | \$200/LF                         |
| <b>10-inch</b> Sewer Open Cut Replacement                     | \$235/LF                         |
| <b>12-inch</b> Sewer Open Cut Replacement                     | \$265/LF                         |
| <b>15-inch</b> Sewer Open Cut Replacement                     | \$300/LF                         |
| <b>18-inch</b> Sewer Open Cut Replacement                     | \$330/LF                         |
| <b>21-inch</b> Sewer Open Cut Replacement                     | \$375/LF                         |
| <b>24-inch</b> Sewer Open Cut Replacement                     | \$405/LF                         |
| <b>27-inch</b> Sewer Open Cut Replacement                     | \$440/LF                         |
| <b>30-inch</b> Sewer Open Cut Replacement                     | \$475/LF                         |
| <b>33-inch</b> Sewer Open Cut Replacement                     | \$500/LF                         |
| <b>36-inch</b> Sewer Open Cut Replacement                     | \$550/LF                         |
| Existing Manhole Rechanneling and Rehabilitation <sup>1</sup> | \$7,000/EA                       |
| New 48" Precast Manhole                                       | \$10,000/EA                      |
| <b>8-inch</b> Sewer CIPP Relining                             | \$55/LF                          |
| <b>12-inch</b> Sewer CIPP Relining                            | \$68/LF                          |

Notes:

1. It was assumed existing manholes would be rehabilitated and rechanneled in place of constructing new manholes to accommodate the open-cut replacement sewers.
2. Construction cost estimates include mobilization, trench shoring as needed, and traffic control.
3. CIPP Relining costs include mobilization and by-pass. Costs do not include lateral re-establishment.



Table 6-4 shows the capital cost factor breakdown utilized in the planning-level cost estimates. As a result, the capital cost was calculated as 150% of the total construction cost for each project.

**Table 6-4: Capital Cost Factors**

| <b>Cost Item</b>                         | <b>Cost Factor<br/>(% of Construction Cost)</b> |
|------------------------------------------|-------------------------------------------------|
| Construction Contingency                 | 30%                                             |
| Design                                   | 10%                                             |
| Administration & Construction Management | 10%                                             |
| <b>Total</b>                             | <b>50%</b>                                      |

Tables 6-5 and 6-6 show the cost estimates for the recommended hydraulic capacity improvement projects and the structural improvement project respectively to address the identified existing conditions deficiencies. The planning-level total capital cost to improve capacity and structural deficiencies under existing conditions is estimated at \$12,629,000, of which \$305,000 is used for upsizing existing sewers to address capacity deficiencies and \$12,324,000 is allocated for rehabilitating or repairing the structurally deficient sewers. Table 6-7 shows the cost for manhole improvement projects. This cost is estimated at \$1,810,500. Tables 6-5 through 6-7 also indicate when each improvement is recommended for repair as part of a proposed year by year CIP plan based on urgency, geographic location, and combined cost. Year 1 projects include the hydraulic capacity improvements as well as the high priority structural segments in the northern half of the city. Year 2 projects include high priority structural segments in the southern half of the city. Year 3 projects consist of lower priority segments in the northwest quadrant of the city, year 4 in the southwest quadrant, year 5 in the northeast quadrant, and year 6 projects are located in the southeast quadrant of the city. Annual CIP costs in 2017 dollars are summarized in Table 6-8.



Table 6-5: Capital Cost Estimates for Capacity Improvement Projects

| Pipe ID           | Existing Pipe Size (in) | Proposed Pipe Size (in) | Pipe Length (ft) | Slope (%) | Existing Max d/D | Proposed CIPs Max d/D | Pipe Unit Cost (\$/LF) | Pipe Replacement Construction Cost (\$) | Number of Manholes | Manhole Unit Cost (\$/EA) | Manhole Cost (\$) | Total Constr. Cost (\$) | Total Capital Cost (\$) |
|-------------------|-------------------------|-------------------------|------------------|-----------|------------------|-----------------------|------------------------|-----------------------------------------|--------------------|---------------------------|-------------------|-------------------------|-------------------------|
| 21-C02            | 8                       | 10                      | 70.1             | 4.2       | 0.38             | 0.28                  | 235                    | 16,474                                  | 1                  | 7,000                     | 7,000             | 23,474                  | 35,210                  |
| 22-21             | 8                       | 10                      | 93.1             | 8.2       | 0.32             | 0.24                  | 235                    | 21,879                                  | 1                  | 7,000                     | 7,000             | 28,879                  | 43,318                  |
| 23-22             | 8                       | 10                      | 107.6            | 0.4       | 1.00             | 0.54                  | 235                    | 25,286                                  | 1                  | 7,000                     | 7,000             | 32,286                  | 48,429                  |
| 24-23             | 8                       | 10                      | 220.1            | 0.3       | 1.00             | 0.56                  | 235                    | 51,724                                  | 1                  | 7,000                     | 7,000             | 58,724                  | 88,085                  |
| 25-24             | 8                       | 10                      | 224.5            | 0.3       | 0.78             | 0.51                  | 235                    | 52,758                                  | 1                  | 7,000                     | 7,000             | 59,758                  | 89,636                  |
| <b>C1 Totals:</b> |                         |                         | <b>715.4</b>     |           |                  |                       |                        | <b>\$168,119</b>                        |                    |                           | <b>\$35,000</b>   | <b>\$203,119</b>        | <b>\$304,679</b>        |





Table 6-6: Cost Estimates for Structural Improvement Projects

| STREET NAME           | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST | Priority | Proposed CIP Year |
|-----------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|----------|-------------------|
| 31th PL               | 47       | 46        | 8             | 33     | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 33       | \$ 6,600          | \$ 9,900     | A        | 1                 |
| ARDMORE AVE           | 73       | 72        | 10            | 147    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 235       | 147      | \$ 34,545         | \$ 51,800    | A        | 1                 |
| OZONE CT EASEMENT     | 116      | 112       | 8             | 87     | VCP           | 4100                      | 4           | 4100               | Replace Line               | LF    | 200       | 87       | \$ 17,400         | \$ 26,100    | A        | 1                 |
| 19TH ST               | 325      | 324       | 8             | 254    | CP            | 5200                      | 17          | 1B00               | Replace Line               | LF    | 200       | 254      | \$ 50,800         | \$ 76,200    | A        | 1                 |
| 20TH ST               | 327      | 323       | 8             | 201    | CP            | 5100                      | 25          | 221C               | Replace Line               | LF    | 200       | 201      | \$ 40,200         | \$ 60,300    | A        | 1                 |
| 20TH PL               | 329      | 322       | 8             | 402    | CP            | 5100                      | 1           | 1100               | Replace Line               | LF    | 200       | 402      | \$ 80,400         | \$ 120,600   | A        | 1                 |
| 25th ST               | 586      | 509       | 8             | 128    | CP            | 5200                      | 7           | 4113               | Replace Line               | LF    | 200       | 128      | \$ 25,600         | \$ 38,400    | A        | 1                 |
| AVA AVE               | 749      | 744       | 8             | 199    | CP            | 5100                      | 5           | 4111               | Replace Line               | LF    | 200       | 199      | \$ 39,800         | \$ 59,700    | A        | 1                 |
| PROSPECT AVE          | 784      | 784A      | 8             | 229    | VCP           | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 229      | \$ 45,800         | \$ 68,700    | A        | 1                 |
| 16TH ST               | 794      | 752       | 8             | 227    | CP            | 4421                      | 5           | 5100               | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    | A        | 1                 |
| 16TH ST               | 795      | 794       | 8             | 109    | CP            | 5200                      | 3           | 3100               | Replace Line               | LF    | 200       | 109      | \$ 21,800         | \$ 32,700    | A        | 1                 |
| GOLDEN AVE            | 832      | 831       | 8             | 203.3  | CP            | 5100                      | 20          | 3324               | Replace Line               | LF    | 200       | 203      | \$ 40,660         | \$ 61,000    | A        | 1                 |
| 21st St               | 1055     | 1054      | 8             | 91     | VCP           | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 91       | \$ 18,200         | \$ 27,300    | A        | 1                 |
| PALM DR               | 1068     | 1067      | 8             | 521    | VCP           | 4300                      | 4           | 4100               | Replace Line               | LF    | 200       | 521      | \$ 104,200        | \$ 156,300   | A        | 1                 |
| BEACH DR              | 1089     | 1088      | 8             | 58     | VCP           | 5100                      | 2           | 2100               | Replace Line               | LF    | 200       | 58       | \$ 11,600         | \$ 17,400    | A        | 1                 |
| OAK ST EASEMENT       | 0860A    | 859       | 8             | 378    | VCP           | 4100                      | 4           | 4100               | Replace Line               | LF    | 200       | 378      | \$ 75,600         | \$ 113,400   | A        | 1                 |
| MANHATTAN AVE         | 1070A    | 1070      | 6             | 285    | VCP           | 5100                      | 7           | 3114               | Replace Line               | LF    | 200       | 285      | \$ 57,000         | \$ 85,500    | A        | 1                 |
| 11TH ST               | 637      | 633       | 8             | 250    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 250      | \$ 50,000         | \$ 75,000    | A        | 2                 |
| HERONDO St            | 172      | 1001      | 8             | 126    | VCP           | 5100                      | 5           | 4111               | Replace Line               | LF    | 200       | 126      | \$ 25,200         | \$ 37,800    | A        | 2                 |
| 2ND ST                | 212      | 211       | 8             | 184    | CP            | 5100                      | 41          | 3123               | Replace Line               | LF    | 200       | 184      | \$ 36,800         | \$ 55,200    | A        | 2                 |
| BARNEY CT-EASEMENT    | 213      | 209A      | 8             | 133    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 133      | \$ 26,600         | \$ 39,900    | A        | 2                 |
| BARNEY CT             | 214      | 213       | 8             | 271    | CP            | 4E+32                     | 4           | 4100               | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    | A        | 2                 |
| 1ST PL                | 224      | 223       | 8             | 510    | CP            | 4532                      | 4           | 4100               | Replace Line               | LF    | 200       | 510      | \$ 102,000        | \$ 153,000   | A        | 2                 |
| 2ND ST                | 233      | 232       | 8             | 233    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 233      | \$ 46,600         | \$ 69,900    | A        | 2                 |
| 5TH ST                | 253      | 252       | 8             | 271    | CP            | 5100                      | 1           | 1100               | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    | A        | 2                 |
| PROSPECT AVE-EASEMENT | 264      | 263       | 8             | 234    | CP            | 5200                      | 61          | 4132               | Replace Line               | LF    | 200       | 234      | \$ 46,800         | \$ 70,200    | A        | 2                 |
| 5TH ST-EASEMENT       | 271      | 270       | 8             | 242    | CP            | 5142                      | 7           | 4131               | Replace Line               | LF    | 200       | 242      | \$ 48,400         | \$ 72,600    | A        | 2                 |
| 4th St                | 295      | 294       | 8             | 262    | CP            | 5231                      | 22          | 4521               | Replace Line               | LF    | 200       | 262      | \$ 52,400         | \$ 78,600    | A        | 2                 |
| AVIATION BLVD         | 620      | 619       | 8             | 115    | CP            | 5142                      | 4           | 4100               | Replace Line               | LF    | 200       | 115      | \$ 23,000         | \$ 34,500    | A        | 2                 |
| AVIATION BLVD         | 630      | 629       | 8             | 307    | VCP           | 5100                      | 2           | 2100               | Replace Line               | LF    | 200       | 307      | \$ 61,400         | \$ 92,100    | A        | 2                 |
| PROSPECT AVE          | 634      | 633       | 8             | 264    | CP            | 5100                      | 50          | 311J               | Replace Line               | LF    | 200       | 264      | \$ 52,800         | \$ 79,200    | A        | 2                 |
| 11TH ST               | 638      | 637       | 8             | 257    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 257      | \$ 51,400         | \$ 77,100    | A        | 2                 |
| PACIFIC COAST HWY     | 655      | 615       | 8             | 235    | CP            | 4100                      | 4           | 4100               | Replace Line               | LF    | 200       | 235      | \$ 47,000         | \$ 70,500    | A        | 2                 |
| ALLEY                 | 663      | 662       | 6             | 134    | CP            | 5400                      | 0           | 0                  | Replace Line               | LF    | 200       | 134      | \$ 26,800         | \$ 40,200    | A        | 2                 |
| 8TH ST                | 675      | 670       | 8             | 246    | CP            | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 246      | \$ 49,200         | \$ 73,800    | A        | 2                 |
| ARDMORE AVE           | 688      | 611       | 8             | 187    | CP            | 5100                      | 1           | 1100               | Replace Line               | LF    | 200       | 187      | \$ 37,400         | \$ 56,100    | A        | 2                 |
| GOLDEN AVE            | 832      | 831       | 8             | 203.3  | CP            | 5100                      | 9           | 3300               | Replace Line               | LF    | 200       | 203      | \$ 40,660         | \$ 61,000    | A        | 2                 |



| STREET NAME          | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST | Priority | Proposed CIP Year |
|----------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|----------|-------------------|
| 21st St              | 1055     | 1054      | 8             | 91     | VCP           | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 91       | \$ 18,200         | \$ 27,300    | A        | 2                 |
| HERMOSA AVE          | 1107     | 1106A     | 8             | 204    | VCP           | 5100                      | 12          | 3400               | Replace Line               | LF    | 200       | 204      | \$ 40,800         | \$ 61,200    | A        | 2                 |
| HERMOSA AVE          | 1014A    | 1016      | 8             | 100    | VCP           | 5100                      | 0           | 0                  | Replace Line               | LF    | 200       | 100      | \$ 20,000         | \$ 30,000    | A        | 2                 |
| FRANCISCO ST         | 61       | 60        | 8             | 170    | CP            | 4200                      | 25          | 4332               | Replace Line               | LF    | 200       | 170      | \$ 34,000         | \$ 51,000    | B        | 3                 |
| FRANCISCO AVE        | 61       | 60        | 8             | 170    | VCP           | 4100                      | 4           | 2200               | Replace Line               | LF    | 200       | 170      | \$ 34,000         | \$ 51,000    | B        | 3                 |
| FRANCISCO ST         | 62       | 61        | 8             | 155    | CP            | 3100                      | 7           | 4131               | Replace Line               | LF    | 200       | 155      | \$ 31,000         | \$ 46,500    | B        | 3                 |
| PARK AVE             | 106      | 105       | 8             | 227    | CP            | 5132                      | 38          | 4433               | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    | B        | 3                 |
| MYRTLE AVE           | 109      | 103       | 8             | 166    | CP            | 4331                      | 30          | 4129               | Replace Line               | LF    | 200       | 166      | \$ 33,200         | \$ 49,800    | B        | 3                 |
| 27th CT              | 114      | 113       | 8             | 373    | VCP           | 4100                      | 22          | 4134               | Replace Line               | LF    | 200       | 373      | \$ 74,600         | \$ 111,900   | B        | 3                 |
| 29th ST              | 523      | 518       | 8             | 479    | CP            | 4131                      | 19          | 4132               | Replace Line               | LF    | 200       | 479      | \$ 95,800         | \$ 143,700   | B        | 3                 |
| 27th CT              | 535      | 534       | 8             | 175    | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 175      | \$ 35,000         | \$ 52,500    | B        | 3                 |
| ARDMORE AVE          | 726      | 725       | 8             | 269    | VCP           | 5131                      | 4           | 3111               | Replace Line               | LF    | 200       | 269      | \$ 53,800         | \$ 80,700    | B        | 3                 |
| ARDMORE AVE          | 731      | 730       | 8             | 224    | VCP           | 4200                      | 3           | 3100               | Replace Line               | LF    | 200       | 224      | \$ 44,800         | \$ 67,200    | B        | 3                 |
| 24th Pl              | 735      | 728       | 8             | 339    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 339      | \$ 67,800         | \$ 101,700   | B        | 3                 |
| SPRINGFIELD AVE      | 748      | 745       | 8             | 146    | CP            | 5131                      | 43          | 332A               | Replace Line               | LF    | 200       | 146      | \$ 29,200         | \$ 43,800    | B        | 3                 |
| ARDMORE AVE EASEMENT | 801      | 0801A     | 8             | 200    | VCP           | 3100                      | 4           | 4100               | Replace Line               | LF    | 200       | 200      | \$ 40,000         | \$ 60,000    | B        | 3                 |
| HERMOSA AVE          | 1025     | 1024      | 8             | 537    | VCP           | 4100                      | 36          | 512A               | Replace Line               | LF    | 200       | 537      | \$ 107,400        | \$ 161,100   | B        | 3                 |
| HERMOSA AVE          | 1030     | 1029      | 8             | 190    | VCP           | 4100                      | 7           | 4113               | Replace Line               | LF    | 200       | 190      | \$ 38,000         | \$ 57,000    | B        | 3                 |
| OZONE                | 1042     | 1039      | 8             | 391    | CP            | 4100                      | 6           | 3121               | Replace Line               | LF    | 200       | 391      | \$ 78,200         | \$ 117,300   | B        | 3                 |
| PALM DR              | 1052     | 1036      | 6             | 790    | VCP           | 4535                      | 51          | 4333               | Replace Line               | LF    | 200       | 790      | \$ 158,000        | \$ 237,000   | B        | 3                 |
| 21st Ct              | 1081A    | 1081      | 6             | 218    | VCP           | 4100                      | 2           | 2100               | Replace Line               | LF    | 200       | 218      | \$ 43,600         | \$ 65,400    | B        | 3                 |
| 24th ST              | C2107    | 1023      | 8             | 235    | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 235      | \$ 47,000         | \$ 70,500    | B        | 3                 |
| LOMA DR              | 124      | 123       | 8             | 458    | VCP           | 4100                      | 128         | 4A3C               | Replace Line               | LF    | 200       | 458      | \$ 91,600         | \$ 137,400   | B        | 4                 |
| BAYVIEW DR           | 126      | 0126A     | 6             | 435    | VCP           | 4232                      | 36          | 4622               | Replace Line               | LF    | 200       | 435      | \$ 87,000         | \$ 130,500   | B        | 4                 |
| 2nd ST               | 207      | 206       | 8             | 307    | CP            | 4200                      | 8           | 3221               | Replace Line               | LF    | 200       | 307      | \$ 61,400         | \$ 92,100    | B        | 4                 |
| 2ND ST               | 232      | 231       | 8             | 140    | CP            | 4B00                      | 2           | 2100               | Replace Line               | LF    | 200       | 140      | \$ 28,000         | \$ 42,000    | B        | 4                 |
| 2ND ST               | 235      | 234       | 8             | 370    | CP            | 513B                      | 4           | 4100               | Replace Line               | LF    | 200       | 370      | \$ 74,000         | \$ 111,000   | B        | 4                 |
| 24th ST              | 591      | 0591A     | 8             | 316    | CP            | 4100                      | 7           | 3114               | Replace Line               | LF    | 200       | 316      | \$ 63,200         | \$ 94,800    | B        | 4                 |
| 9th St               | 696      | 689       | 6             | 443    | CP            | 4100                      | 3           | 3100               | Replace Line               | LF    | 200       | 443      | \$ 88,600         | \$ 132,900   | B        | 4                 |
| VALLEY DR            | 701      | 610       | 8             | 15     | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 15       | \$ 3,000          | \$ 4,500     | B        | 4                 |
| CYPRESS AVE          | 706      | 705       | 8             | 69     | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 69       | \$ 13,800         | \$ 20,700    | B        | 4                 |
| 11th St              | 708      | 608       | 8             | 338    | CP            | 4131                      | 16          | 4126               | Replace Line               | LF    | 200       | 338      | \$ 67,600         | \$ 101,400   | B        | 4                 |
| VALLEY DR            | 722      | 605       | 10            | 127    | CP            | 4100                      | 6           | 4112               | Replace Line               | LF    | 235       | 127      | \$ 29,845         | \$ 44,800    | B        | 4                 |
| PARK AVE             | 1047     | 1046      | 8             | 326    | CP            | 4100                      | 17          | 4331               | Replace Line               | LF    | 200       | 326      | \$ 65,200         | \$ 97,800    | B        | 4                 |
| MANHATTAN AVE        | 1057     | 1056      | 8             | 128    | CP            | 4131                      | 5           | 1500               | Replace Line               | LF    | 200       | 128      | \$ 25,600         | \$ 38,400    | B        | 4                 |
| MANHATTAN AVE        | 1061     | 1060      | 8             | 291    | CP            | 4200                      | 23          | 4227               | Replace Line               | LF    | 200       | 291      | \$ 58,200         | \$ 87,300    | B        | 4                 |



| STREET NAME             | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST | Priority | Proposed CIP Year |
|-------------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|----------|-------------------|
| PALM DR                 | 1065     | 1054      | 6             | 283    | VCP           | 4131                      | 0           | 0                  | Replace Line               | LF    | 200       | 283      | \$ 56,600         | \$ 84,900    | B        | 4                 |
| HERMOSA AVE             | 1069     | C0500     | 8             | 300    | VCP           | 514A                      | 0           | 0                  | Replace Line               | LF    | 200       | 300      | \$ 60,000         | \$ 90,000    | B        | 4                 |
| BEACH DR                | 1088     | 1082      | 8             | 64     | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 64       | \$ 12,800         | \$ 19,200    | B        | 4                 |
| BEACH DR                | 1098     | 1097      | 8             | 271    | CI            | 0000                      | 114         | 3G00               | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    | B        | 4                 |
| BEACH DR                | 1099     | 1098      | 8             | 271    | CI            | 0000                      | 60          | 433B               | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    | B        | 4                 |
| CULPER CT               | 1133     | 1132      | 8             | 181    | CP            | 4100                      | 2           | 1200               | Replace Line               | LF    | 200       | 181      | \$ 36,200         | \$ 54,300    | B        | 4                 |
| PACIFIC COAST HWY       | 0687B    | 613       | 8             | 200    | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 200      | \$ 40,000         | \$ 60,000    | B        | 4                 |
| 9Th Ct                  | 1097A    | 1097      | 6             | 268    | VCP           | 4131                      | 23          | 312A               | Replace Line               | LF    | 200       | 268      | \$ 53,600         | \$ 80,400    | B        | 4                 |
| MANHATTAN AVE           | 1115C    | 1115B     | 6             | 170    | VCP           | 4100                      | 26          | 4322               | Replace Line               | LF    | 200       | 170      | \$ 34,000         | \$ 51,000    | B        | 4                 |
| 8th PL                  | 688A     | 688B      | 6             | 450    | VCP           | 4131                      | 26          | 3121               | Replace Line               | LF    | 200       | 450      | \$ 90,000         | \$ 135,000   | B        | 4                 |
| MANHATTAN AVE           | Cap      | 0141A     | 6             | 138    | VCP           | 3100                      | 4           | 4100               | Replace Line               | LF    | 200       | 138      | \$ 27,600         | \$ 41,400    | B        | 4                 |
| 14th ST                 | 1070     | 1067      | 6             | 139    | VCP           | 3600                      | 4           | 4100               | Replace Line               | LF    | 200       | 139      | \$ 27,800         | \$ 41,700    | B        | 4                 |
| LONGFELLOW AVE EASEMENT | 80       | 79        | 8             | 122    | CP            | 4100                      | 4           | 1400               | Replace Line               | LF    | 200       | 122      | \$ 24,400         | \$ 36,600    | B        | 5                 |
| HARPER AVE              | 322      | 321       | 8             | 500    | CP            | 5141                      | 212         | 3F1Z               | Replace Line               | LF    | 200       | 500      | \$ 100,000        | \$ 150,000   | B        | 5                 |
| 19TH ST                 | 326      | 325       | 8             | 278    | CP            | 4700                      | 8           | 3212               | Replace Line               | LF    | 200       | 278      | \$ 55,600         | \$ 83,400    | B        | 5                 |
| 20TH ST                 | 328      | 327       | 8             | 220    | CP            | 4200                      | 24          | 331B               | Replace Line               | LF    | 200       | 220      | \$ 44,000         | \$ 66,000    | B        | 5                 |
| PACIFIC COAST HWY       | 741      | 740       | 8             | 463    | CP            | 4100                      | 2           | 2100               | Replace Line               | LF    | 200       | 463      | \$ 92,600         | \$ 138,900   | B        | 5                 |
| PACIFIC COAST HWY       | 754      | 753       | 8             | 271    | CP            | 5142                      | 0           | 0                  | Replace Line               | LF    | 200       | 271      | \$ 54,200         | \$ 81,300    | B        | 5                 |
| PACIFIC COAST HWY       | 756      | 755       | 8             | 409    | CP            | 4432                      | 0           | 0                  | Replace Line               | LF    | 200       | 409      | \$ 81,800         | \$ 122,700   | B        | 5                 |
| PACIFIC COAST HWY       | 757      | 756       | 8             | 435    | CP            | 5143                      | 5           | 4111               | Replace Line               | LF    | 200       | 435      | \$ 87,000         | \$ 130,500   | B        | 5                 |
| PROSPECT AVE            | 768      | 766       | 8             | 526    | CP            | 524E                      | 6           | 3200               | Replace Line               | LF    | 200       | 526      | \$ 105,200        | \$ 157,800   | B        | 5                 |
| PROSPECT AVE            | 769      | 766       | 8             | 351    | VCP           | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 351      | \$ 70,200         | \$ 105,300   | B        | 5                 |
| ALLEY                   | 777      | 774       | 8             | 144    | CP            | 5141                      | 1           | 1100               | Replace Line               | LF    | 200       | 144      | \$ 28,800         | \$ 43,200    | B        | 5                 |
| 19th ST                 | 778      | 756       | 8             | 268    | CP            | 4100                      | 4           | 2112               | Replace Line               | LF    | 200       | 268      | \$ 53,600         | \$ 80,400    | B        | 5                 |
| HILLCREST DR            | 786      | 781       | 8             | 260    | CP            | 4100                      | 84          | 3                  | Replace Line               | LF    | 200       | 260      | \$ 52,000         | \$ 78,000    | B        | 5                 |
| 17TH ST                 | 793      | 792       | 8             | 399    | CP            | 514H                      | 26          | 4136               | Replace Line               | LF    | 200       | 399      | \$ 79,800         | \$ 119,700   | B        | 5                 |
| PACIFIC COAST HWY       | 808      | 807       | 8             | 159    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 159      | \$ 31,800         | \$ 47,700    | B        | 5                 |
| PACIFIC COAST HWY       | 809      | 808       | 8             | 140.8  | CP            | 5141                      | 9           | 3300               | Replace Line               | LF    | 200       | 141      | \$ 28,160         | \$ 42,200    | B        | 5                 |
| AVIATION BLVD           | 813      | 812       | 8             | 44     | CI            | 3100                      | 0           | 0                  | Replace Line               | LF    | 200       | 44       | \$ 8,700          | \$ 13,100    | B        | 5                 |
| AVIATION BLVD           | 815      | 813       | 8             | 400.7  | CP            | 544D                      | 2           | 2100               | Replace Line               | LF    | 200       | 401      | \$ 80,140         | \$ 120,200   | B        | 5                 |
| AVIATION BLVD           | 816      | 815       | 8             | 98     | CP            | 3100                      | 4           | 4100               | Replace Line               | LF    | 200       | 98       | \$ 19,600         | \$ 29,400    | B        | 5                 |
| AVIATION BLVD           | 817      | 0816A     | 8             | 212.6  | CP            | 5242                      | 2           | 1200               | Replace Line               | LF    | 200       | 213      | \$ 42,520         | \$ 63,800    | B        | 5                 |
| OWOSSO AVE              | 835      | 817       | 8             | 191    | CP            | 5132                      | 49          | 4133               | Replace Line               | LF    | 200       | 191      | \$ 38,200         | \$ 57,300    | B        | 5                 |
| 14TH ST                 | 847      | 846       | 8             | 244.7  | CP            | 5131                      | 7           | 3122               | Replace Line               | LF    | 200       | 245      | \$ 48,940         | \$ 73,400    | B        | 5                 |
| BONNIE BRAE ST          | 851      | 847       | 8             | 113    | CP            | 514C                      | 36          | 3A00               | Replace Line               | LF    | 200       | 113      | \$ 22,600         | \$ 33,900    | B        | 5                 |
| BONNIE BRAE ST          | 852      | 851       | 8             | 525    | CP            | 4K32                      | 109         | 3F21               | Replace Line               | LF    | 200       | 525      | \$ 105,000        | \$ 157,500   | B        | 5                 |



| STREET NAME       | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST | Priority | Proposed CIP Year |
|-------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|----------|-------------------|
| CAMPANA ST        | 854      | 853       | 8             | 288    | CP            | 4100                      | 14          | 2700               | Replace Line               | LF    | 200       | 288      | \$ 57,600         | \$ 86,400    | B        | 5                 |
| 15th St           | 857      | 0856A     | 8             | 227    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    | B        | 5                 |
| HARPER AVE        | 324A     | 324       | 8             | 93     | VCP           | 4100                      | 1           | 1100               | Replace Line               | LF    | 200       | 93       | \$ 18,600         | \$ 27,900    | B        | 5                 |
| 24TH ST           | 764B     | 764C      | 8             | 210    | VCP           | 5141                      | 20          | 3621               | Replace Line               | LF    | 200       | 210      | \$ 42,000         | \$ 63,000    | B        | 5                 |
| 19TH ST           | 325      | 324       | 8             | 227    | CP            | 5133                      | 6           | 2114               | Replace Line               | LF    | 200       | 227      | \$ 45,400         | \$ 68,100    | B        | 5                 |
| 20TH PL           | 329      | 322       | 8             | 402    | CP            | 5141                      | 0           | 0                  | Replace Line               | LF    | 200       | 402      | \$ 80,400         | \$ 120,600   | B        | 5                 |
| 18TH ST           | 1165     | 779       | 8             | 165    | VCP           | 5121                      | 0           | 0                  | Replace Line               | LF    | 200       | 165      | \$ 33,000         | \$ 49,500    | B        | 5                 |
| 2ND ST            | 210      | 209       | 8             | 124    | CP            | 4200                      | 0           | 0                  | Replace Line               | LF    | 200       | 124      | \$ 24,800         | \$ 37,200    | B        | 6                 |
| 2ND ST            | 211      | 210       | 8             | 384    | CP            | 5244                      | 72          | 1P00               | Replace Line               | LF    | 200       | 384      | \$ 76,800         | \$ 115,200   | B        | 6                 |
| 1ST ST            | 221      | 220       | 8             | 422    | CP            | 4100                      | 103         | 4234               | Replace Line               | LF    | 200       | 422      | \$ 84,400         | \$ 126,600   | B        | 6                 |
| 5th ST            | 252      | 251       | 8             | 188    | CP            | 4200                      | 0           | 0                  | Replace Line               | LF    | 200       | 188      | \$ 37,600         | \$ 56,400    | B        | 6                 |
| 5TH ST            | 254      | 253       | 8             | 204    | CP            | 5141                      | 0           | 0                  | Replace Line               | LF    | 200       | 204      | \$ 40,800         | \$ 61,200    | B        | 6                 |
| 5TH ST            | 256      | 255       | 8             | 284    | CP            | 4F00                      | 5           | 3112               | Replace Line               | LF    | 200       | 284      | \$ 56,800         | \$ 85,200    | B        | 6                 |
| PROSPECT AVE      | 261      | 260       | 8             | 211    | CP            | 4100                      | 5           | 3112               | Replace Line               | LF    | 200       | 211      | \$ 42,200         | \$ 63,300    | B        | 6                 |
| PROSPECT AVE      | 263      | 262       | 8             | 165    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 165      | \$ 33,000         | \$ 49,500    | B        | 6                 |
| MASSEY ST         | 266      | 265       | 8             | 269    | CP            | 4100                      | 0           | 0                  | Replace Line               | LF    | 200       | 269      | \$ 53,800         | \$ 80,700    | B        | 6                 |
| HOLLOWELL AVE     | 267      | 262       | 8             | 472    | CP            | 5144                      | 3           | 2111               | Replace Line               | LF    | 200       | 472      | \$ 94,400         | \$ 141,600   | B        | 6                 |
| HOLLOWELL AVE     | 268      | 261       | 8             | 180    | CP            | 5143                      | 0           | 0                  | Replace Line               | LF    | 200       | 180      | \$ 36,000         | \$ 54,000    | B        | 6                 |
| HOPKINS ST        | 274      | 272       | 8             | 213    | CP            | 5142                      | 13          | 4133               | Replace Line               | LF    | 200       | 213      | \$ 42,600         | \$ 63,900    | B        | 6                 |
| 3RD ST            | 280      | 279       | 8             | 322    | CP            | 5142                      | 5           | 3121               | Replace Line               | LF    | 200       | 322      | \$ 64,400         | \$ 96,600    | B        | 6                 |
| PACIFIC COAST HWY | 615      | 614       | 10            | 107    | CP            | 4131                      | 0           | 0                  | Replace Line               | LF    | 235       | 107      | \$ 25,145         | \$ 37,700    | B        | 6                 |
| AVIATION BLVD     | 619      | 618       | 8             | 251    | CP            | 4131                      | 2           | 1200               | Replace Line               | LF    | 200       | 251      | \$ 50,200         | \$ 75,300    | B        | 6                 |
| AVIATION BLVD     | 621      | 620       | 8             | 93     | CP            | 5141                      | 6           | 3121               | Replace Line               | LF    | 200       | 93       | \$ 18,600         | \$ 27,900    | B        | 6                 |
| AVIATION BLVD     | 624      | 623       | 8             | 113    | CP            | 4600                      | 0           | 0                  | Replace Line               | LF    | 200       | 113      | \$ 22,600         | \$ 33,900    | B        | 6                 |
| AVIATION BLVD     | 626      | 625       | 8             | 85     | CP            | 5141                      | 4           | 4100               | Replace Line               | LF    | 200       | 85       | \$ 17,000         | \$ 25,500    | B        | 6                 |
| AVIATION BLVD     | 627      | 626       | 8             | 185    | CP            | 4100                      | 15          | 3500               | Replace Line               | LF    | 200       | 185      | \$ 37,000         | \$ 55,500    | B        | 6                 |
| AVIATION BLVD     | 628      | 627       | 8             | 144    | CP            | 4100                      | 66          | 3C00               | Replace Line               | LF    | 200       | 144      | \$ 28,800         | \$ 43,200    | B        | 6                 |
| 10TH ST           | 636      | 635       | 8             | 336.3  | CP            | 5241                      | 35          | 4137               | Replace Line               | LF    | 200       | 336      | \$ 67,260         | \$ 100,900   | B        | 6                 |
| 11TH PL           | 640      | 639       | 8             | 184    | CP            | 4631                      | 8           | 4121               | Replace Line               | LF    | 200       | 184      | \$ 36,800         | \$ 55,200    | B        | 6                 |
| 9TH ST            | 651      | 650       | 8             | 301    | CP            | 5342                      | 130         | 412N               | Replace Line               | LF    | 200       | 301      | \$ 60,200         | \$ 90,300    | B        | 6                 |
| 7TH ST            | 667      | 666       | 8             | 57     | CP            | 4100                      | 8           | 3115               | Replace Line               | LF    | 200       | 57       | \$ 11,400         | \$ 17,100    | B        | 6                 |
| 7TH ST            | 668      | 667       | 8             | 379    | CP            | 4131                      | 76          | 511P               | Replace Line               | LF    | 200       | 379      | \$ 75,800         | \$ 113,700   | B        | 6                 |
| PROSPECT AVE      | 670      | 669       | 8             | 264    | CP            | 4131                      | 51          | 1K00               | Replace Line               | LF    | 200       | 264      | \$ 52,800         | \$ 79,200    | B        | 6                 |
| 7TH ST            | 677      | 669       | 8             | 295    | CP            | 4H12                      | 0           | 0                  | Replace Line               | LF    | 200       | 295      | \$ 59,000         | \$ 88,500    | B        | 6                 |
| PROSPECT AVE      | 679      | 669       | 8             | 224    | CP            | 4100                      | 24          | 3800               | Replace Line               | LF    | 200       | 224      | \$ 44,800         | \$ 67,200    | B        | 6                 |
| 7TH PL            | 680      | 679       | 8             | 438    | CP            | 5142                      | 81          | 4132               | Replace Line               | LF    | 200       | 438      | \$ 87,600         | \$ 131,400   | B        | 6                 |



| STREET NAME              | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST  | Priority | Proposed CIP Year |
|--------------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|---------------|----------|-------------------|
| 7TH PL                   | 681      | 680       | 8             | 381    | CP            | 5141                      | 21          | 3700               | Replace Line               | LF    | 200       | 381      | \$ 76,200         | \$ 114,300    | B        | 6                 |
| EASEMENT                 | 652A     | 652       | 8             | 200    | CP            | 4200                      | 0           | 0                  | Replace Line               | LF    | 200       | 200      | \$ 40,000         | \$ 60,000     | B        | 6                 |
| ALLEY                    | 663      | 662       | 6             | 134    | CP            | 5242                      | 2           | 2100               | Replace Line               | LF    | 200       | 134      | \$ 26,800         | \$ 40,200     | B        | 6                 |
| 7TH ST                   | 666      | 665       | 8             | 209    | CP            | 4G11                      | 5           | 1500               | Replace Line               | LF    | 200       | 209      | \$ 41,800         | \$ 62,700     | B        | 6                 |
| Subtotal                 |          |           |               | 36,768 |               |                           |             |                    |                            |       |           | 36,768   | \$ 7,367,000      | \$ 11,051,000 |          |                   |
|                          |          |           |               |        |               |                           |             |                    |                            |       |           |          |                   |               |          |                   |
| 13TH ST                  | 0844A    | 808       | 8             | 245    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 245      | \$ 13,475         | \$ 20,200     | C        | 1                 |
| ALLEY                    | 774      | 761       | 8             | 117    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 117      | \$ 6,435          | \$ 9,700      | C        | 1                 |
| PORTER LN                | 732      | 731       | 8             | 219    | VCP           | 0000                      | 11          | 4231               | Line Entire Segment        | LF    | 55        | 219      | \$ 12,045         | \$ 18,100     | C        | 1                 |
| 34th PL                  | 40       | 39        | 6             | 281    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 281      | \$ 15,455         | \$ 23,200     | C        | 1                 |
| 28th Ct                  | 55       | 54        | 8             | 406    | VCP           | 0000                      | 9           | 5141               | Line Entire Segment        | LF    | 55        | 406      | \$ 22,330         | \$ 33,500     | C        | 1                 |
| 33rd PL                  | 91       | 90        | 8             | 272    | VCP           | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 272      | \$ 14,960         | \$ 22,400     | C        | 1                 |
| VALLEY PARK              | 571      | 514       | 8             | 313    | CP            | 0000                      | 7           | 5121               | Line Entire Segment        | LF    | 55        | 313      | \$ 17,215         | \$ 25,800     | C        | 1                 |
| 29th CT                  | 0526A    | 526       | 8             | 20     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 20       | \$ 1,100          | \$ 1,700      | C        | 1                 |
| 28th CT                  | 532      | 531       | 8             | 242    | VCP           | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 242      | \$ 13,310         | \$ 20,000     | C        | 1                 |
| 24th PL                  | 587      | 508       | 8             | 354    | CP            | 0000                      | 22          | 4432               | Line Entire Segment        | LF    | 55        | 354      | \$ 19,470         | \$ 29,200     | C        | 1                 |
| POWER ST EASEMENT        | 0504A    | 0504B     | 15            | 360    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 76        | 360      | \$ 27,360         | \$ 41,000     | C        | 1                 |
| POWER ST EASEMENT        | 0504A    | 0504B     | 15            | 360    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 76        | 360      | \$ 27,360         | \$ 41,000     | C        | 1                 |
| MYRTLE AVE EASEMENT      | 110      | 109       | 8             | 260    | CP            | 0000                      | 16          | 4400               | Line Entire Segment        | LF    | 55        | 260      | \$ 14,300         | \$ 21,500     | C        | 1                 |
| VALLEY PARK AVE          | 597      | 596       | 8             | 121    | VCP           | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 121      | \$ 6,655          | \$ 10,000     | C        | 1                 |
| 16th ST                  | 751      | 722       | 8             | 290    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 290      | \$ 15,950         | \$ 23,900     | C        | 1                 |
| 25th St                  | 105      | 104       | 8             | 270    | CP            | 0000                      | 11          | 4231               | Line Entire Segment        | LF    | 55        | 270      | \$ 14,850         | \$ 22,300     | C        | 1                 |
| 25th St                  | 105      | 104       | 8             | 270    | CP            | 0000                      | 18          | 4332               | Line Entire Segment        | LF    | 55        | 270      | \$ 14,850         | \$ 22,300     | C        | 1                 |
| 25th St                  | 1153     | 1152      | 8             | 109    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 109      | \$ 5,995          | \$ 9,000      | C        | 1                 |
| 24th ST                  | 1039     | 1038      | 8             | 138    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 138      | \$ 7,590          | \$ 11,400     | C        | 1                 |
| LONGFELLOW AVE EASEMENT  | 81       | 0081A     | 8             | 394    | CP            | 0000                      | 15          | 4331               | Line Entire Segment        | LF    | 55        | 394      | \$ 21,670         | \$ 32,500     | C        | 1                 |
| HERMOSA VIEW DR          | 570      | 569       | 8             | 161    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 161      | \$ 8,855          | \$ 13,300     | C        | 1                 |
| HERMOSA VIEW DR EASEMENT | C/O      | 569       | 8             | 132    | VCP           | 0000                      | 30          | 5144               | Line Entire Segment        | LF    | 55        | 132      | \$ 7,260          | \$ 10,900     | C        | 1                 |
| HERMOSA AVE              | 1155     | 1156      | 8             | 275    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 275      | \$ 15,125         | \$ 22,700     | C        | 1                 |
| 21st St                  | 1056     | 1055      | 8             | 48     | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 48       | \$ 2,640          | \$ 4,000      | C        | 1                 |
| PIER AVE                 | 806      | 805       | 8             | 339    | CP            | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 339      | \$ 18,645         | \$ 28,000     | C        | 1                 |
| PORTER LN EASEMENT       | 581      | 580       | 8             | 139    | VCP           | 0000                      | 16          | 4400               | Line Entire Segment        | LF    | 55        | 139      | \$ 7,645          | \$ 11,500     | C        | 1                 |
| PORTER LN EASEMENT       | 578      | 577       | 8             | 139    | VCP           | 0000                      | 15          | 4331               | Line Entire Segment        | LF    | 55        | 139      | \$ 7,645          | \$ 11,500     | C        | 1                 |
| VALLEY PARK EASEMENT     | 575      | 513       | 8             | 274    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 274      | \$ 15,070         | \$ 22,600     | C        | 1                 |
| VALLEY PARK EASEMENT     | 575      | 513       | 8             | 274    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 274      | \$ 15,070         | \$ 22,600     | C        | 1                 |
| VALLEY PARK AVE EASEMENT | 602      | 502       | 12            | 160    | POLY          | 0000                      | 100         | 4D00               | Line Entire Segment        | LF    | 68        | 160      | \$ 10,880         | \$ 16,300     | C        | 1                 |
| 19th St                  | 1066     | 1020      | 6             | 303    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 303      | \$ 16,665         | \$ 25,000     | C        | 1                 |





| STREET NAME                  | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST | Priority | Proposed CIP Year |
|------------------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|--------------|----------|-------------------|
| PALM DR                      | 1063     | 1063B     | 8             | 200    | CP            | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 200      | \$ 11,000         | \$ 16,500    | C        | 1                 |
| PALM DR                      | 1053     | 1036      | 6             | 353    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 353      | \$ 19,415         | \$ 29,100    | C        | 1                 |
| PACIFIC COAST HWY - EASEMENT | 812      | 811       | 8             | 136    | CP            | 0000                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 136      | \$ 7,480          | \$ 11,200    | C        | 2                 |
| 7TH ST                       | 669      | 668       | 8             | 53     | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 53       | \$ 2,915          | \$ 4,400     | C        | 2                 |
| HILL ST                      | 236      | 232A      | 8             | 38     | OTHER         | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 38       | \$ 2,090          | \$ 3,100     | C        | 2                 |
| 2ND ST                       | 231      | CO230     | 8             | 100    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 100      | \$ 5,500          | \$ 8,300     | C        | 2                 |
| THE STRAND                   | 1093B    | 1093A     | 6             | 79     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 79       | \$ 4,345          | \$ 6,500     | C        | 2                 |
| THE STRAND                   | 1093B    | 1093A     | 6             | 79     | PVC           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 79       | \$ 4,345          | \$ 6,500     | C        | 2                 |
| SPRINGFIELD AVE              | 747      | 745       | 8             | 183    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 183      | \$ 10,065         | \$ 15,100    | C        | 2                 |
| 8Th Pl                       | 688B     | 688       | 8             | 35     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 35       | \$ 1,925          | \$ 2,900     | C        | 2                 |
| ARDMORE AVE                  | 725      | 724       | 8             | 397    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 397      | \$ 21,835         | \$ 32,800    | C        | 2                 |
| 13th CT                      | 1091     | 1160      | 10            | 174    | VCP           | 0000                      | 8           | 4200               | Line Entire Segment        | LF    | 68        | 174      | \$ 11,832         | \$ 17,700    | C        | 2                 |
| BARD ST                      | 0703A    | 703       | 6             | 216    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 216      | \$ 11,880         | \$ 17,800    | C        | 2                 |
| PALM DR                      | 1068A    | 1068      | 8             | 128    | VCP           | 0000                      | 22          | 4432               | Line Entire Segment        | LF    | 55        | 128      | \$ 7,040          | \$ 10,600    | C        | 2                 |
| PACIFIC COAST HWY            | 289      | 288       | 8             | 248    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 248      | \$ 13,640         | \$ 20,500    | C        | 2                 |
| MONTEREY BLVD                | 151      | CO150     | 8             | 15     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 15       | \$ 825            | \$ 1,200     | C        | 2                 |
| PIER AVE                     | 805      | 606       | 8             | 170    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 170      | \$ 9,350          | \$ 14,000    | C        | 2                 |
| HERONDO ST                   | 176      | 172       | 8             | 306    | CP            | 0000                      | 11          | 4231               | Line Entire Segment        | LF    | 55        | 306      | \$ 16,830         | \$ 25,200    | C        | 2                 |
| VALLEY DR EASEMENT           | 703      | 609       | 6             | 171    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 171      | \$ 9,405          | \$ 14,100    | C        | 2                 |
| 2nd St                       | 1127     | 1004      | 8             | 54     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 54       | \$ 2,970          | \$ 4,500     | C        | 2                 |
| VALLEY DR                    | 605      | 604       | 15            | 328    | VCP           | 0000                      | 260         | 4N00               | Line Entire Segment        | LF    | 76        | 328      | \$ 24,928         | \$ 37,400    | C        | 2                 |
| PALM DR                      | 1126     | 1125      | 6             | 437    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 437      | \$ 24,035         | \$ 36,100    | C        | 2                 |
| MANHATTAN AVE                | 1124     | 1120      | 8             | 235    | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 235      | \$ 12,925         | \$ 19,400    | C        | 2                 |
| 28th Ct                      | 55       | 54        | 8             | 250    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 250      | \$ 13,750         | \$ 20,600    | C        | 2                 |
| 28th Ct                      | 55       | 54        | 8             | 250    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 250      | \$ 13,750         | \$ 20,600    | C        | 2                 |
| 28th Ct                      | 55       | 54        | 8             | 220    | CP            | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 220      | \$ 12,100         | \$ 18,200    | C        | 2                 |
| HERMOSA AVE                  | 1108     | 1007      | 8             | 45     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 45       | \$ 2,475          | \$ 3,700     | C        | 2                 |
| HERONDO ST                   | 1132H    | TRNK      | 10            | 79     | VCP           | 0000                      | 4           | 4100               | Line Entire Segment        | LF    | 68        | 79       | \$ 5,372          | \$ 8,100     | C        | 2                 |
| 1ST ST                       | 204A     | 203       | 8             | 45     | CP            | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 55        | 45       | \$ 2,475          | \$ 3,700     | C        | 2                 |
| 2ND ST                       | 234      | 233       | 8             | 139    | VCP           | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 55        | 139      | \$ 7,645          | \$ 11,500    | C        | 2                 |
| 10Th Ct                      | 1096A    | 1096      | 6             | 291    | VCP           | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 55        | 291      | \$ 16,005         | \$ 24,000    | C        | 2                 |
| POWER ST EASEMENT            | 503      | 1166      | 15            | 170    | VCP           | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 76        | 170      | \$ 12,920         | \$ 19,400    | C        | 2                 |
| PACIFIC COAST HWY            | Cap      | 759       | 8             | 156    | CP            | 0000                      | 5           | 5100               | Line Entire Segment        | LF    | 55        | 156      | \$ 8,580          | \$ 12,900    | C        | 2                 |
| 25th ST EASEMENT             | 511      | 510       | 10            | 192    | VCP           | 2100                      | 8           | 4200               | Line Entire Segment        | LF    | 79        | 192      | \$ 15,168         | \$ 22,800    | D        | 3                 |
| GOULD AVE                    | 538      | 537       | 8             | 163    | VCP           | 2111                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 163      | \$ 8,965          | \$ 13,400    | D        | 3                 |
| 19th St                      | 1066     | 1020      | 6             | 303    | VCP           | 2211                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 303      | \$ 16,665         | \$ 25,000    | D        | 3                 |



| STREET NAME         | START MH | FINISH MH | PIPE DIA (in) | LENGTH | PIPE MATERIAL | Pipe Defects Quick Rating | O&M Defects | O & M Quick Rating | RECOMMENDED REHABILITATION | UNITS | UNIT COST | QUANTITY | CONSTRUCTION COST | CAPITAL COST  | Priority | Proposed CIP Year |
|---------------------|----------|-----------|---------------|--------|---------------|---------------------------|-------------|--------------------|----------------------------|-------|-----------|----------|-------------------|---------------|----------|-------------------|
| HILL ST             | 236      | 232A      | 6             | 38     | VCP           | 1100                      | 7           | 4131               | Line Entire Segment        | LF    | 55        | 38       | \$ 2,090          | \$ 3,100      | D        | 4                 |
| EASEMENT            | 201      | CO200     | 8             | 100    | VCP           | 1100                      | 8           | 4200               | Line Entire Segment        | LF    | 55        | 100      | \$ 5,500          | \$ 8,300      | D        | 4                 |
| 10Th Ct             | 1096A    | 1096      | 6             | 291    | VCP           | 1100                      | 8           | 5131               | Line Entire Segment        | LF    | 55        | 291      | \$ 16,005         | \$ 24,000     | D        | 4                 |
| BEACH DR            | 1142A    | 1142      | 6             | 96     | VCP           | 2100                      | 4           | 4100               | Line Entire Segment        | LF    | 55        | 96       | \$ 5,280          | \$ 7,900      | D        | 4                 |
| 3rd St              | 245      | 244       | 8             | 150    | CP            | 2100                      | 105         | 4D11               | Line Entire Segment        | LF    | 55        | 150      | \$ 8,250          | \$ 12,400     | D        | 4                 |
| MONTGOMERY DR       | 867      | 840       | 6             | 310    | CP            | 1100                      | 11          | 4231               | Line Entire Segment        | LF    | 55        | 310      | \$ 17,050         | \$ 25,600     | D        | 6                 |
| HARPER AVE-EASEMENT | 324E     | 324G      | 8             | 73     | VCP           | 2100                      | 7           | 5121               | Line Entire Segment        | LF    | 55        | 73       | \$ 4,015          | \$ 6,000      | D        | 6                 |
| Subtotal            |          |           |               | 14,781 |               |                           |             |                    |                            |       |           | 13,761   | \$ 849,000        | \$ 1,273,000  |          |                   |
| Grand Total         |          |           |               | 51,549 |               |                           |             |                    |                            |       |           | 50,529   | \$ 8,216,000      | \$ 12,324,000 |          |                   |





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Table 6-7: Capital Cost Estimates for Manhole Improvement Projects

| Proposed<br>CIP Year | MH #  | Defect Type      | Recommended<br>Rehabilitation | Units | Quantity | Construction<br>Cost Estimate | Capital Cost<br>Estimate |
|----------------------|-------|------------------|-------------------------------|-------|----------|-------------------------------|--------------------------|
| 1                    | 0061  | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0062  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0071  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0072  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0074  | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0082  | Cone Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0084  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0086  | Bench Defects    | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0112  | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0123  | Bench Defects    | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0324  | Step Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0325  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0507  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0509  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0515  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0518  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0520  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0534  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0540  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0726  | Wall Defects     | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0728  | Step Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0737  | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0740  | Wall Defects     | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0744  | Wall Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0746  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0752  | Bench Defects    | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0758  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0765  | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0766  | Step Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0774  | Bench Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0778  | Step Defects     | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0781  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0782  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0783  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0800  | Bench Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 0859  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 1025  | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 1028  | Chimney Defects  | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 1046  | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 1057  | Bench Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 1058  | Cone Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 1083  | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 1                    | 0123A | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 1                    | 1059A | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |



| Proposed<br>CIP Year | MH # | Defect Type      | Recommended<br>Rehabilitation | Units | Quantity | Construction<br>Cost Estimate | Capital Cost<br>Estimate |
|----------------------|------|------------------|-------------------------------|-------|----------|-------------------------------|--------------------------|
| 2                    | 0141 | Bench Defects    | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0204 | Cone Defects     | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0210 | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0216 | Step Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0222 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0225 | Cone Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0241 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0254 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0256 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0259 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0263 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0266 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0272 | Cone Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0277 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0281 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0282 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0283 | Cone Defects     | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0284 | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0285 | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0286 | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0291 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0302 | Wall Defects     | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0313 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0612 | Cone Defects     | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0634 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0679 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0681 | Chimney Defects  | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0689 | Cone Defects     | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0693 | Chimney Defects  | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0694 | Step Defects     | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0717 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0718 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0719 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0816 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0827 | Cone Defects     | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0831 | Bench Defects    | Manhole Rehabilitation        | EA    | 1        | \$ 7,000                      | \$ 10,500                |
| 2                    | 0833 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0835 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0836 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0837 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0838 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0844 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0847 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0851 | Multiple Defects | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |
| 2                    | 0857 | Frame Defects    | Manhole Replacement           | EA    | 1        | \$ 10,000                     | \$ 15,000                |



| Proposed CIP Year | MH #  | Defect Type      | Recommended Rehabilitation | Units | Quantity   | Construction Cost Estimate | Capital Cost Estimate |
|-------------------|-------|------------------|----------------------------|-------|------------|----------------------------|-----------------------|
| 2                 | 0861  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 2                 | 0862  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 2                 | 0866  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 2                 | 1132  | Wall Defects     | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0006  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0028  | Step Defects     | Manhole Rehabilitation     | EA    | 1          | \$ 7,000                   | \$ 10,500             |
| 3                 | 0032  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0033  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0034  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0039  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0041  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0043  | Wall Defects     | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0045  | Cone Defects     | Manhole Rehabilitation     | EA    | 1          | \$ 7,000                   | \$ 10,500             |
| 3                 | 0088  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0089  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0090  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0104  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0108  | Chimney Defects  | Manhole Rehabilitation     | EA    | 1          | \$ 7,000                   | \$ 10,500             |
| 3                 | 0111  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0508  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0513  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0514  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0589  | Chimney Defects  | Manhole Rehabilitation     | EA    | 1          | \$ 7,000                   | \$ 10,500             |
| 3                 | 1032  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 1037  | Wall Defects     | Manhole Rehabilitation     | EA    | 1          | \$ 7,000                   | \$ 10,500             |
| 3                 | 1039  | Bench Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 1044  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 3                 | 0036A | Bench Defects    | Manhole Rehabilitation     | EA    | 1          | \$ 7,000                   | \$ 10,500             |
| 4                 | 0173  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 4                 | 0175  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 4                 | 0243  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 4                 | 0245  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 4                 | 0246  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 4                 | 0247  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 4                 | 1096  | Chimney Defects  | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 4                 | 1132H | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 5                 | 0731  | Multiple Defects | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 5                 | 0751  | Cone Defects     | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 5                 | 0812  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 5                 | 0842  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| 6                 | 0669  | Frame Defects    | Manhole Replacement        | EA    | 1          | \$ 10,000                  | \$ 15,000             |
| <b>Totals</b>     |       |                  |                            |       | <b>130</b> | <b>\$ 1,207,000</b>        | <b>\$ 1,810,500</b>   |

Table 6-8: Proposed Capital Improvement Projects 6-Year Plan

| Year 1       | Year 2       | Year 3      | Year 4      | Year 5      | Year 6      | Total        |
|--------------|--------------|-------------|-------------|-------------|-------------|--------------|
| \$ 2,648,100 | \$ 2,580,300 | \$2,105,700 | \$2,131,800 | \$2,575,900 | \$2,397,700 | \$14,439,500 |





# APPENDICES







## Appendix A: CCTV Data





| Distance | Flow Direction | Asset ID    | Start ID | End ID   | Asset Type                     | Asset Size | Asset Location              | Asset Length | Pacp Quick Struct Rating | Pacp Quick Struct Num | Struct Ratings Index | Pacp Quick Maint Rating | Pacp Quick Maint Num | Maint Ratings Index | Pacp Quick Overall Rating | Pacp Quick Overall Num | Overall Ratings Index |
|----------|----------------|-------------|----------|----------|--------------------------------|------------|-----------------------------|--------------|--------------------------|-----------------------|----------------------|-------------------------|----------------------|---------------------|---------------------------|------------------------|-----------------------|
| 258.2    | Downstream     | 0637-0633   | 637      | 633      | Concrete Pipe (non-reinforced) | 8          | 11TH ST                     | 250          | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 2        | Upstream       | 0663-0662   | 663      | 662      | Concrete Pipe (non-reinforced) | 6          | ALLEY                       | 134          | 5400                     | 20                    | 5                    | 0                       | 0                    | 5400                | 20                        | 5                      |                       |
| 116.1    | Upstream       | 0784-784A   | 784      | 784A     | Vitrified Clay Pipe            | 8          | PROSPECT AVE                | 229          | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 308.2    | Downstream     | 0675-0670   | 675      | 670      | Concrete Pipe (non-reinforced) | 8          | 8TH ST                      | 246          | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 150.3    | Upstream       | 0638-0637   | 638      | 637      | Concrete Pipe (non-reinforced) | 8          | 11TH ST                     | 257          | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 32.6     | Downstream     | 0213-209A   | 213      | 209A     | Concrete Pipe (non-reinforced) | 8          | BARNEY CT-EASEMENT          | 133          | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 230.5    | Downstream     | 0233-0232   | 233      | 232      | Concrete Pipe (non-reinforced) | 8          | 2ND ST                      | 233          | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 30.5     | Downstream     | 47 46       | 47       | 46       | Concrete Pipe (non-reinforced) | 8          | 31th PL                     | 33           | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 134.8    | Downstream     | 1073-0072   | 73       | 72       | Concrete Pipe (non-reinforced) | 10         | ARDMORE AVE                 | 147          | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 121.5    | Upstream       | 1013-1016   | 1013A    | 1016A    | Vitrified Clay Pipe            | 8          | HERMOSA AVE                 | 100          | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 0        | Downstream     | 1055 1054   | 1055     | 1054     | Vitrified Clay Pipe            | 8          | 21st St                     | 91           | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 107.7    | Upstream       | 1055 1054   | 1055     | 1054     | Vitrified Clay Pipe            | 8          | 21st St                     | 91           | 5100                     | 5                     | 5                    | 0                       | 0                    | 5100                | 5                         | 5                      |                       |
| 280      | Downstream     | 0634-0633   | 634      | 633      | Concrete Pipe (non-reinforced) | 8          | PROSPECT AVE                | 264          | 5100                     | 5                     | 5                    | 311J                    | 50                   | 1                   | 5131                      | 55                     | 1                     |
| 106.9    | Downstream     | 0325-0324   | 325      | 324      | Concrete Pipe (non-reinforced) | 8          | 19TH ST                     | 254          | 5200                     | 10                    | 5                    | 1800                    | 17                   | 1                   | 521B                      | 27                     | 1                     |
| 213.6    | Downstream     | 0327-0323   | 327      | 323      | Concrete Pipe (non-reinforced) | 8          | 20TH ST                     | 201          | 5100                     | 5                     | 5                    | 221C                    | 25                   | 1                   | 5122                      | 30                     | 1                     |
| 154.4    | Upstream       | 0329-0322   | 329      | 322      | Concrete Pipe (non-reinforced) | 8          | 20TH PL                     | 402          | 5100                     | 5                     | 5                    | 1100                    | 1                    | 1                   | 5111                      | 6                      | 3                     |
| 274.7    | Downstream     | 0253-0252   | 253      | 252      | Concrete Pipe (non-reinforced) | 8          | 5TH ST                      | 271          | 5100                     | 5                     | 5                    | 1100                    | 1                    | 1                   | 5111                      | 6                      | 3                     |
| 242.8    | Downstream     | 0264-0263   | 264      | 263      | Concrete Pipe (non-reinforced) | 8          | PROSPECT AVE-EASEMENT       | 234          | 5200                     | 10                    | 5                    | 4132                    | 61                   | 1                   | 5241                      | 71                     | 1                     |
| 185.8    | Downstream     | 0212-0211   | 212      | 211      | Concrete Pipe (non-reinforced) | 8          | 2ND ST                      | 184          | 5100                     | 5                     | 5                    | 3123                    | 41                   | 1                   | 5131                      | 46                     | 1                     |
| 163.8    | Downstream     | 688 611     | 688      | 611      | Concrete Pipe (non-reinforced) | 8          | ARDMORE AVE                 | 187          | 5100                     | 5                     | 5                    | 1100                    | 1                    | 1                   | 5111                      | 6                      | 3                     |
| 338      | Downstream     | 1070A 1070  | 1070A    | 1070     | Vitrified Clay Pipe            | 6          | MANHATTAN AVE               | 285          | 5100                     | 5                     | 5                    | 3114                    | 7                    | 1                   | 5131                      | 12                     | 2                     |
| 290.5    | Downstream     | 0630-0629   | 630      | 629      | Vitrified Clay Pipe            | 8          | AVIATION BLVD               | 307          | 5100                     | 5                     | 5                    | 2100                    | 2                    | 2                   | 5121                      | 7                      | 4                     |
| 162.6    | Downstream     | 0832-0831   | 832      | 831      | Concrete Pipe (non-reinforced) | 8          | GOLDEN AVE                  | 203.3        | 5100                     | 5                     | 5                    | 3324                    | 20                   | 2                   | 5133                      | 25                     | 2                     |
| 96.4     | Upstream       | 1089 1088   | 1089     | 1088     | Vitrified Clay Pipe            | 8          | BEACH DR                    | 58           | 5100                     | 5                     | 5                    | 2100                    | 2                    | 2                   | 5121                      | 7                      | 4                     |
| 208.1    | Downstream     | 749 744     | 749      | 744      | Concrete Pipe (non-reinforced) | 8          | AVA AVE                     | 199          | 5100                     | 5                     | 5                    | 4111                    | 5                    | 2                   | 5141                      | 10                     | 3                     |
| 158.4    | Downstream     | 0586 0509   | 586      | 509      | Concrete Pipe (non-reinforced) | 8          | 25th ST                     | 128          | 5200                     | 10                    | 5                    | 4113                    | 7                    | 2                   | 5241                      | 17                     | 3                     |
| 81.6     | Downstream     | 0172 0171   | 172      | 1001     | Vitrified Clay Pipe            | 8          | HERONDO SI                  | 126          | 5100                     | 5                     | 5                    | 4111                    | 5                    | 2                   | 5141                      | 10                     | 3                     |
| 51.7     | Upstream       | 0832-0831   | 832      | 831      | Concrete Pipe (non-reinforced) | 8          | GOLDEN AVE                  | 203.3        | 5100                     | 5                     | 5                    | 3300                    | 9                    | 3                   | 5133                      | 14                     | 4                     |
| 112.1    | Downstream     | 0795-0794   | 795      | 794      | Concrete Pipe (non-reinforced) | 8          | 16TH ST                     | 109          | 5200                     | 10                    | 5                    | 3100                    | 3                    | 3                   | 5231                      | 13                     | 4                     |
| 18.9     | Downstream     | 1107 1106A  | 1107     | 1106A    | Vitrified Clay Pipe            | 8          | HERMOSA AVE                 | 204          | 5100                     | 5                     | 5                    | 3400                    | 12                   | 3                   | 5134                      | 17                     | 3                     |
| 307.7    | Downstream     | 652A-0652   | 652A     | 652      | Concrete Pipe (non-reinforced) | 8          | EASEMENT                    | 4            | 4200                     | 8                     | 4                    | 0                       | 0                    | 4200                | 8                         | 4                      |                       |
| 101.8    | Downstream     | 0624-0623   | 624      | 623      | Concrete Pipe (non-reinforced) | 8          | AVIATION BLVD               | 113          | 4600                     | 24                    | 4                    | 0                       | 0                    | 4600                | 24                        | 4                      |                       |
| 366.8    | Downstream     | 0769-0766   | 769      | 766      | Vitrified Clay Pipe            | 8          | PROSPECT AVE                | 361          | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 172.1    | Downstream     | 1165-0779   | 1165     | 779      | Vitrified Clay Pipe            | 8          | 18TH ST                     | 165          | 5121                     | 7                     | 7                    | 0                       | 0                    | 5121                | 7                         | 4                      |                       |
| 182.6    | Downstream     | 0329-0322   | 329      | 322      | Concrete Pipe (non-reinforced) | 8          | 20TH PL                     | 402          | 5141                     | 7                     | 4                    | 0                       | 0                    | 5141                | 9                         | 4                      |                       |
| 28.2     | Downstream     | 0254-0253   | 254      | 253      | Concrete Pipe (non-reinforced) | 8          | 5TH ST                      | 401          | 5141                     | 12                    | 4                    | 0                       | 0                    | 5141                | 12                        | 4                      |                       |
| 363.1    | Downstream     | 0677-0669   | 677      | 669      | Concrete Pipe (non-reinforced) | 8          | 7TH ST                      | 295          | 4H12                     | 158                   | 4                    | 0                       | 0                    | 4H12                | 158                       | 4                      |                       |
| 192.1    | Downstream     | 0268-0261   | 268      | 261      | Concrete Pipe (non-reinforced) | 8          | HOLLOWELL AVE               | 180          | 5143                     | 18                    | 4                    | 0                       | 0                    | 5143                | 18                        | 4                      |                       |
| 172      | Downstream     | 0263-0262   | 263      | 262      | Concrete Pipe (non-reinforced) | 8          | PROSPECT AVE                | 165          | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 95.1     | Downstream     | 0210-0209   | 210      | 209      | Concrete Pipe (non-reinforced) | 8          | 2ND ST                      | 124          | 4200                     | 8                     | 4                    | 0                       | 0                    | 4200                | 8                         | 4                      |                       |
| 90.1     | Downstream     | 0615-0614   | 615      | 614      | Concrete Pipe (non-reinforced) | 10         | PACIFIC COAST HWY           | 107          | 4131                     | 7                     | 4                    | 0                       | 0                    | 4131                | 7                         | 4                      |                       |
| 265.8    | Downstream     | 0266-0265   | 266      | 265      | Concrete Pipe (non-reinforced) | 8          | MASSEY ST                   | 269          | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 105.5    | Upstream       | CB-OPEN BOX | CB       | OPEN BOX | Corrugated Metal Pipe          | 24         | IDYLVWOOD DR FERNWOOD M.H.P | 4            | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 66.2     | Upstream       | 1083 1082   | 1083     | 1082     | Concrete Pipe (non-reinforced) | 8          | BEACH DR                    | 64           | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 389.1    | Downstream     | 735 728     | 735      | 728      | Concrete Pipe (non-reinforced) | 8          | 24TH PI                     | 339          | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 173      | Downstream     | 0535 0534   | 535      | 534      | Vitrified Clay Pipe            | 8          | 27th CT                     | 175          | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 255.8    | Downstream     | 1065 1054   | 1065     | 1054     | Vitrified Clay Pipe            | 6          | PALM DR                     | 283          | 4131                     | 7                     | 4                    | 0                       | 0                    | 4131                | 7                         | 4                      |                       |
| 96.8     | Upstream       | C2107 1023  | C2107    | 1023     | Vitrified Clay Pipe            | 8          | 24th ST                     | 235          | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 204      | Downstream     | 0706 0705   | 706      | 705      | Concrete Pipe (non-reinforced) | 8          | CYPRESS AVE                 | 69           | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 183      | Downstream     | 0252 0251   | 252      | 251      | Concrete Pipe (non-reinforced) | 8          | 5th ST                      | 188          | 4200                     | 8                     | 4                    | 0                       | 0                    | 4200                | 8                         | 4                      |                       |
| 116.5    | Downstream     | 0687B 0613  | 0687B    | 613      | Vitrified Clay Pipe            | 8          | PACIFIC COAST HWY           | 200          | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 400.3    | Downstream     | 0756 0755   | 756      | 755      | Concrete Pipe (non-reinforced) | 8          | PACIFIC COAST HWY           | 409          | 4432                     | 22                    | 4                    | 0                       | 0                    | 4432                | 22                        | 4                      |                       |
| 286.8    | Downstream     | 0754 0753   | 754      | 753      | Concrete Pipe (non-reinforced) | 8          | PACIFIC COAST HWY           | 271          | 5142                     | 19                    | 4                    | 0                       | 0                    | 5142                | 19                        | 4                      |                       |
| 177.8    | Downstream     | 0857 0856A  | 857      | 0856A    | Concrete Pipe (non-reinforced) | 8          | 15th St                     | 227          | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 18.6     | Upstream       | 0701 0610   | 701      | 610      | Vitrified Clay Pipe            | 8          | VALLEY DR                   | 15           | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 150.9    | Downstream     | 0808 0807   | 808      | 807      | Concrete Pipe (non-reinforced) | 8          | PACIFIC COAST HWY           | 807          | 4100                     | 4                     | 4                    | 0                       | 0                    | 4100                | 4                         | 4                      |                       |
| 248.9    | Downstream     | 1069 C0500  | 1069     | C0500    | Vitrified Clay Pipe            | 8          | HERMOSA AVE                 | 300          | 514A                     | 54                    | 4                    | 0                       | 0                    | 514A                | 54                        | 4                      |                       |
| 201.4    | Downstream     | 0835-0817   | 835      | 817      | Concrete Pipe (non-reinforced) | 8          | OWOSSO AVE                  | 191          | 5132                     | 11                    | 4                    | 4133                    | 49                   | 1                   | 5141                      | 60                     | 1                     |
| 110.1    | Downstream     | 0817-0816A  | 817      | 0816A    | Concrete Pipe (non-reinforced) | 8          | AVIATION BLVD               | 212.6        | 5242                     | 19                    | 4                    | 1200                    | 2                    | 1                   | 5242                      | 21                     | 3                     |
| 146.8    | Downstream     | 0777-0774   | 777      | 774      | Concrete Pipe (non-reinforced) | 8          | ALLEY                       | 144          | 5141                     | 9                     | 4                    | 1100                    | 1                    | 1                   | 5141                      | 10                     | 3                     |
| 139      | Downstream     | 324A-0324   | 324A     | 324      | Vitrified Clay Pipe            | 8          | HARPER AVE                  | 93           | 4100                     | 4                     | 4                    | 1100                    | 1                    | 1                   | 4111                      | 5                      | 2                     |
| 236.2    | Downstream     | 0328-0327   | 328      | 327      | Concrete Pipe (non-reinforced) | 8          | 20TH ST                     | 220          | 4200                     | 8                     | 4                    | 331B                    | 24                   | 1                   | 4233                      | 32                     | 2                     |
| 512.7    | Downstream     | 0322-0321   | 322      | 321      | Concrete Pipe (non-reinforced) | 8          | HARPER AVE                  | 500          | 5141                     | 12                    | 4                    | 3F1Z                    | 212                  | 1                   | 5141                      | 224                    | 1                     |
| 433.1    | Downstream     | 0680-0679   | 680      | 679      | Concrete Pipe (non-reinforced) | 8          | 7TH PL                      | 438          | 5142                     | 15                    | 4                    | 4132                    | 81                   | 1                   | 5143                      | 96                     | 1                     |
| 282.2    | Downstream     | 0670-0669   | 670      | 669      | Concrete Pipe (non-reinforced) | 8          | PROSPECT AVE                | 264          | 4131                     | 7                     | 4                    | 1K00                    | 51                   | 1                   | 4131                      | 58                     | 1                     |
| 388.3    | Downstream     | 0668-0667   | 668      | 667      | Concrete Pipe (non-reinforced) | 8          | 7TH ST                      | 379          | 4131                     | 7                     | 4                    | 511P                    | 76                   | 1                   | 5141                      | 83                     | 1                     |
| 190.4    | Upstream       | 0660-0655   | 666      | 665      | Concrete Pipe (non-reinforced) | 8          | 7TH ST                      | 209          | 4611                     | 141                   | 4                    | 3500                    | 5                    | 1                   | 4616                      | 146                    | 4                     |
| 36.9     | Downstream     | 0667-0666   | 667      | 666      | Concrete Pipe (non-reinforced) | 8          | 17TH ST                     | 57           | 4100                     | 4                     | 4                    | 3115                    | 8                    | 1                   | 4131                      | 8                      | 2                     |
| 121.3    | Upstream       | 0325-0324   | 325      | 324      | Concrete Pipe (non-reinforced) | 8          | 19TH ST                     | 67           | 5133                     | 14                    | 4                    | 2114                    | 6                    | 2                   | 5133                      | 20                     | 2                     |
| 432.7    | Downstream     | 0211-0210   | 211      | 210      | Concrete Pipe (non-reinforced) | 8          | 2ND ST                      | 384          | 5244                     | 26                    | 4                    | 1P00                    | 72                   | 1                   | 5244                      | 98                     | 1                     |
| 468.1    | Downstream     | 0221-0220   | 221      | 220      | Concrete Pipe (non-reinforced) | 8          | 1ST ST                      | 422          | 4100                     | 4                     | 4                    | 4234                    | 103                  | 1                   | 4334                      | 107                    | 1                     |
| 255.6    | Downstream     | 0619-0618   | 619      | 618      | Concrete Pipe (non-reinforced) | 8          | AVIATION BLVD               | 251          | 4131                     | 7                     | 4                    | 1200                    | 2                    | 1                   | 4131                      | 9                      | 2                     |
| 469.5    | Downstream     | 688A 688B   | 688A     | 688B     | Vitrified Clay Pipe            | 6          | 8th PL                      | 450          | 4131                     | 7                     | 4                    | 3121                    | 26                   | 1                   | 4132                      | 33                     | 1                     |
| 355.9    | Downstream     | 0591 0591A  | 591      | 0591A    | Concrete Pipe (non-reinforced) | 8          | 24th ST                     | 316          | 4100                     | 4                     | 4                    | 3114                    | 7                    | 1                   | 4131                      | 11                     | 2                     |
| 117.3    | Upstream       | 0080 0079   | 80       | 79       | Concrete Pipe (non-reinforced) | 8          | LONGFELLOW AVE EASEMENT     | 4            | 4100                     | 4                     | 4                    | 1400                    | 4                    | 1                   | 4114                      | 8                      | 2                     |
| 114.8    | Downstream     | 1057 1056   | 1057     | 1056     | Concrete Pipe (non-reinforced) | 8          | MANHATTAN AVE               | 128          | 4131                     | 7                     | 4                    | 1500                    | 5                    | 1                   | 4131                      | 12                     | 2                     |
| 301.3    | Downstream     | 0778 0756   | 778      | 756      | Concrete Pipe (non-reinforced) | 8          | 19th ST                     | 268          | 4100                     | 4                     | 4                    | 2112                    | 4                    | 1                   | 4121                      | 8                      | 2                     |
| 171.5    | Downstream     | 1133 1132   | 1133     | 1132     | Concrete Pipe (non-reinforced) | 8          | CULPER CT                   | 2            | 4100                     | 4                     | 4                    | 1200                    | 2                    | 1                   | 4112                      | 6                      | 2                     |
| 121.9    | Downstream     | 0634-0662   | 634      | 662      | Concrete Pipe (non-reinforced) | 8          | ALLEY                       | 210          | 5142                     | 18                    | 4                    | 2100                    | 2                    | 2                   | 5142                      | 20                     | 2                     |
| 338      | Downstream     | 0651-0650   | 651      | 650      | Concrete Pipe (non-reinforced) | 8          | 9TH ST                      | 301          | 5342                     | 25                    | 4                    | 412N                    | 130                  | 2                   | 5343                      | 155                    | 2                     |
| 199.1    | Upstream       | 0640-0639   | 640      | 639      | Concrete Pipe (non-reinforced) | 8          | 11TH PL                     | 184          | 4631                     | 29                    | 4                    | 4121                    | 8                    | 2                   | 4743                      | 37                     | 3                     |
| 216.2    | Downstream     | 0815-0814   | 815      | 813      | Concrete Pipe (non-reinforced) | 8          | AVIATION BLVD               | 400.7        | 5440                     | 124                   | 4                    | 2100                    | 2                    | 2                   | 544D                      | 126                    | 4                     |
| 244.5    | Upstream       | 0854-0853   | 854      | 853      | Concrete Pipe (non-reinforced) | 8          | CAMPANA ST                  | 288          | 4100                     | 4                     | 4                    | 2700                    | 14                   | 2                   | 4127                      | 18                     | 2                     |
| 320.9    | Downstream     | 0847-0846   | 847      | 846      | Concrete Pipe (non-reinforced) | 8          | 14TH ST                     | 244.7        | 5131                     | 8                     | 4                    | 3122                    | 7                    | 2                   |                           |                        |                       |

CCTV Pipe Data

|       |            |             |       |       |                                |    |                          |       |      |     |   |      |     |   |      |     |   |
|-------|------------|-------------|-------|-------|--------------------------------|----|--------------------------|-------|------|-----|---|------|-----|---|------|-----|---|
| 332.4 | Downstream | 0281-0280   | 281   | 280   | Concrete Pipe (non-reinforced) | 8  | 3RD ST                   | 340   | 5132 | 15  | 3 | 3121 | 7   | 2 | 5133 | 22  | 2 |
| 313.6 | Downstream | 0209-0208   | 209   | 208   | Concrete Pipe (non-reinforced) | 8  | 2ND ST                   | 316   | 4132 | 11  | 3 | 2400 | 8   | 2 | 4132 | 19  | 2 |
| 358.1 | Downstream | 0208-0207   | 208   | 207   | Concrete Pipe (non-reinforced) | 8  | 2ND ST                   | 332   | 4111 | 237 | 3 | 3212 | 8   | 2 | 4332 | 245 | 3 |
| 125.7 | Downstream | 0202-0201   | 202   | 201   | Concrete Pipe (non-reinforced) | 8  | 1ST ST                   | 120   | 4132 | 11  | 3 | 3121 | 5   | 2 | 4133 | 16  | 3 |
| 278.5 | Downstream | 1101-1100   | 1101  | 1100  | Vitrified Clay Pipe            | 8  | BEACH DR                 | 272   | 5141 | 16  | 3 | 3212 | 8   | 2 | 5141 | 24  | 3 |
| 309.9 | Downstream | 1080A-1080  | 1080A | 1080  | Vitrified Clay Pipe            | 6  | 20TH CT                  | 387   | 3200 | 6   | 3 | 4133 | 18  | 2 | 4135 | 24  | 2 |
| 365.2 | Downstream | 627-626     | 727   | 726   | Vitrified Clay Pipe            | 8  | ARDMORE AVE              | 367   | 3300 | 9   | 3 | 4233 | 16  | 2 | 4233 | 25  | 2 |
| 245.7 | Downstream | 300-299     | 300   | 299   | Concrete Pipe (non-reinforced) | 8  | 5th St                   | 243   | 3100 | 3   | 3 | 2211 | 5   | 2 | 3122 | 8   | 2 |
| 247.2 | Downstream | 697-611     | 697   | 611   | Vitrified Clay Pipe            | 8  | ARDMORE AVE              | 228   | 3400 | 12  | 3 | 2F00 | 62  | 2 | 342F | 74  | 2 |
| 211.4 | Downstream | 34-33       | 34    | 33    | Concrete Pipe (non-reinforced) | 8  | 34th St                  | 212   | 3100 | 3   | 3 | 3213 | 9   | 2 | 3313 | 12  | 2 |
| 243.7 | Downstream | 0003-0002   | 3     | 2     | Concrete Pipe (non-reinforced) | 6  | NEPTUNE AVE              | 226   | 3100 | 3   | 3 | 3313 | 12  | 2 | 3413 | 15  | 2 |
| 419   | Downstream | 0593-0507   | 593   | 507   | Concrete Pipe (non-reinforced) | 8  | 24th ST                  | 385   | 3100 | 3   | 3 | 4135 | 55  | 2 | 4136 | 58  | 2 |
| 148.4 | Downstream | 0596-0502   | 596   | 502   | Vitrified Clay Pipe            | 8  | VALLEY PARK AVE EASEMENT | 151   | 3100 | 3   | 3 | 4131 | 9   | 2 | 4132 | 12  | 2 |
| 381.8 | Downstream | 1040-1039   | 1040  | 1039  | Concrete Pipe (non-reinforced) | 8  | 24th ST                  | 382   | 3100 | 3   | 3 | 4132 | 19  | 2 | 4133 | 22  | 2 |
| 374.9 | Downstream | 0125-0123   | 125   | 123   | Vitrified Clay Pipe            | 8  | LOMA DR                  | 381   | 4434 | 29  | 3 | 3212 | 8   | 2 | 4436 | 37  | 3 |
| 129.2 | Upstream   | 0570A-0570  | Cap   | 570   | Vitrified Clay Pipe            | 8  | HERMOSA VIEW DR EASEMENT | 139   | 3200 | 6   | 3 | 3321 | 15  | 2 | 3521 | 21  | 2 |
| 211.5 | Downstream | 1031-1030   | 1031  | 1030  | Vitrified Clay Pipe            | 8  | HERMOSA AVE              | 198   | 3100 | 3   | 3 | 3113 | 6   | 2 | 3213 | 9   | 2 |
| 316.1 | Downstream | 0717-0716X  | 723   | 0716X | Concrete Pipe (non-reinforced) | 8  | LOMA DR                  | 284   | 3100 | 3   | 3 | 2100 | 2   | 2 | 3121 | 5   | 2 |
| 350.8 | Downstream | 0791-0754   | 791   | 754   | Concrete Pipe (non-reinforced) | 8  | 17th St                  | 329   | 4132 | 11  | 3 | 2100 | 2   | 2 | 4132 | 13  | 3 |
| 526.4 | Downstream | 1117-1116   | 1117  | 1116  | Vitrified Clay Pipe            | 8  | BAYVIEW DR               | 510   | 5131 | 9   | 3 | 4331 | 27  | 2 | 5143 | 36  | 2 |
| 269.1 | Downstream | 0704-0703   | 704   | 703   | Vitrified Clay Pipe            | 6  | VALLEY DR EASEMENT       | 255   | 3411 | 13  | 3 | 2C00 | 42  | 2 | 342C | 55  | 2 |
| 355.5 | Downstream | 1132E-1132F | 1132E | 1132F | Vitrified Clay Pipe            | 8  | VALLEY DR                | 330   | 3200 | 6   | 3 | 2300 | 6   | 2 | 3223 | 12  | 2 |
| 561.3 | Downstream | 0134-0122   | 134   | 122   | Vitrified Clay Pipe            | 6  | BAYVIEW DR               | 548   | 4333 | 23  | 3 | 4435 | 58  | 2 | 4738 | 81  | 2 |
| 274.2 | Downstream | 0173-0172   | 173   | 172   | Vitrified Clay Pipe            | 8  | PALM DR                  | 279   | 4435 | 31  | 3 | 2B17 | 37  | 2 | 4435 | 68  | 2 |
| 95.7  | Downstream | 0631-0629   | 631   | 629   | Concrete Pipe (non-reinforced) | 8  | PROSPECT AVE             | 109   | 5141 | 13  | 3 | 3100 | 3   | 3 | 5141 | 16  | 3 |
| 151.7 | Upstream   | 0216-0215   | 216   | 215   | Concrete Pipe (non-reinforced) | 8  | 1ST ST                   | 354   | 3100 | 3   | 3 | 3221 | 8   | 3 | 3321 | 11  | 3 |
| 475.6 | Downstream | 0629-0628   | 629   | 628   | Concrete Pipe (non-reinforced) | 8  | AVIATION BLVD            | 441   | 4233 | 19  | 3 | 3100 | 3   | 3 | 4234 | 22  | 3 |
| 408.1 | Upstream   | 0821-0820   | 821   | 820   | Vitrified Clay Pipe            | 8  | 14TH ST                  | 396   | 3100 | 3   | 3 | 3421 | 125 | 3 | 3421 | 128 | 3 |
| 141.6 | Upstream   | 0287-0248   | 819   | 818   | Concrete Pipe (non-reinforced) | 8  | AVIATION BLVD            | 387.3 | 5141 | 10  | 3 | 3100 | 3   | 3 | 5141 | 13  | 3 |
| 167.7 | Upstream   | 0849-848X   | 849   | 848X  | Concrete Pipe (non-reinforced) | 8  | 14TH ST                  | 138   | 4100 | 23  | 3 | 3600 | 18  | 3 | 423A | 41  | 3 |
| 211.2 | Downstream | 848X-0847   | 848X  | 847   | Concrete Pipe (non-reinforced) | 8  | 14TH ST                  | 213   | 5141 | 24  | 3 | 3800 | 51  | 3 | 5141 | 75  | 3 |
| 218.1 | Downstream | 0681-0680   | 681   | 680   | Concrete Pipe (non-reinforced) | 8  | 7TH PL                   | 392   | 5111 | 6   | 3 | 3100 | 3   | 3 | 5131 | 9   | 3 |
| 294.7 | Downstream | 0623-0621   | 623   | 621   | Concrete Pipe (non-reinforced) | 8  | AVIATION BLVD            | 285   | 5144 | 24  | 3 | 3100 | 3   | 3 | 5144 | 27  | 3 |
| 149.7 | Upstream   | 0618-0617   | 618   | 617   | Concrete Pipe (non-reinforced) | 10 | PACIFIC COAST HWY        | 200   | 3100 | 3   | 3 | 3300 | 9   | 3 | 3400 | 12  | 3 |
| 445.5 | Downstream | 1144A-1143  | 1144A | 1143  | Vitrified Clay Pipe            | 8  | THE STRAND               | 300   | 3100 | 9   | 3 | 3D2A | 89  | 3 | 3D2A | 98  | 3 |
| 204.8 | Downstream | 1100A-1100  | 1100A | 1100  | Vitrified Clay Pipe            | 6  | 6TH COURT                | 232   | 5142 | 37  | 3 | 3C23 | 66  | 3 | 5142 | 103 | 3 |
| 277.8 | Downstream | 1100-1099   | 1100  | 1099  | Cast Iron                      | 8  | BEACH DR                 | 271   | 3100 | 3   | 3 | 300  | 132 | 3 | 300  | 135 | 3 |
| 349.6 | Downstream | 723-722     | 723   | 722   | Vitrified Clay Pipe            | 8  | ARDMORE AVE              | 358   | 3100 | 3   | 3 | 4838 | 58  | 3 | 4839 | 61  | 3 |
| 139.3 | Downstream | 0862-0861   | 862   | 861   | Vitrified Clay Pipe            | 8  | OAK ST                   | 119   | 3200 | 6   | 3 | 4122 | 8   | 3 | 4132 | 14  | 3 |
| 43.9  | Downstream | 0864C-0864  | 0864C | 864   | Vitrified Clay Pipe            | 8  | MONTEREY AVE             | 24    | 3200 | 6   | 3 | 3600 | 18  | 3 | 3900 | 24  | 3 |
| 295.2 | Downstream | 0153C-0153  | 0153C | 153   | Vitrified Clay Pipe            | 8  | MONTEREY BLVD            | 570   | 3100 | 3   | 3 | 4132 | 11  | 3 | 4133 | 14  | 3 |
| 538.7 | Downstream | 1112-1111   | 1112  | 1111  | Vitrified Clay Pipe            | 8  | PALM DR                  | 541   | 3200 | 6   | 3 | 3726 | 33  | 3 | 3926 | 39  | 3 |
| 100.2 | Downstream | 0626-0625   | 626   | 625   | Concrete Pipe (non-reinforced) | 8  | AVIATION BLVD            | 85    | 5141 | 11  | 3 | 4100 | 4   | 4 | 5142 | 15  | 3 |
| 112.8 | Downstream | 0816-0815   | 816   | 815   | Concrete Pipe (non-reinforced) | 8  | AVIATION BLVD            | 98    | 3100 | 3   | 3 | 4100 | 4   | 4 | 4131 | 7   | 4 |
| 353.9 | Downstream | 0235-0234   | 235   | 234   | Concrete Pipe (non-reinforced) | 8  | 2ND ST                   | 370   | 5138 | 52  | 3 | 4100 | 4   | 4 | 5141 | 56  | 3 |
| 173.6 | Downstream | 0062-0061   | 62    | 61    | Concrete Pipe (non-reinforced) | 8  | FRANCISCO ST             | 155   | 3100 | 3   | 3 | 4131 | 7   | 4 | 4132 | 10  | 3 |
| 139.8 | Downstream | 1070-1067   | 1070  | 1067  | Vitrified Clay Pipe            | 6  | 14th St                  | 139   | 3600 | 18  | 3 | 4100 | 4   | 4 | 4136 | 22  | 3 |
| 129.2 | Upstream   | 0141B-0141A | Cap   | 0141A | Vitrified Clay Pipe            | 6  | MANHATTAN AVE            | 118   | 3100 | 3   | 3 | 4100 | 4   | 4 | 4131 | 7   | 4 |
| 109.7 | Upstream   | 0801-0801A  | 801   | 0801A | Vitrified Clay Pipe            | 8  | ARDMORE AVE EASEMENT     | 200   | 3100 | 3   | 3 | 4100 | 4   | 4 | 4131 | 7   | 4 |
| 242   | Downstream | 0216-0215   | 216   | 215   | Concrete Pipe (non-reinforced) | 8  | 1ST ST                   | 354   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 227.8 | Downstream | 0781-0780   | 781   | 780   | Vitrified Clay Pipe            | 8  | 18TH ST                  | 222   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 338.8 | Downstream | 0283-0282   | 283   | 282   | Concrete Pipe (non-reinforced) | 8  | 3RD ST                   | 412   | 2100 | 8   | 2 | 0    | 0   | 0 | 4121 | 8   | 2 |
| 6     | Downstream | 1144-1144A  | 1144  | 1144A | Vitrified Clay Pipe            | 8  | THE STRAND               | 2     | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 125.5 | Upstream   | 299-298     | 299   | 298   | Concrete Pipe (non-reinforced) | 8  | 5th St                   | 195   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 8.6   | Downstream | 245-244     | 245   | 244   | Concrete Pipe (non-reinforced) | 8  | 3rd St                   | 150   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 146.1 | Downstream | 45-44       | 45    | 44    | Concrete Pipe (non-reinforced) | 8  | 32nd PL                  | 276   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 37.1  | Upstream   | 42-41       | 42    | 41    | Concrete Pipe (non-reinforced) | 8  | 33rd PL                  | 288   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 179.2 | Downstream | 313-312     | 313   | 312   | Vitrified Clay Pipe            | 8  | CYPRESS AVE              | 194   | 2200 | 4   | 2 | 0    | 0   | 0 | 2200 | 4   | 2 |
| 6     | Downstream | 0511-0510   | 511   | 510   | Vitrified Clay Pipe            | 3  | 10                       | 192   | 2111 | 3   | 2 | 0    | 0   | 0 | 2111 | 3   | 2 |
| 153.9 | Downstream | 0752A-0752B | 0752A | 0752B | Vitrified Clay Pipe            | 8  | 16th St                  | 335   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 187.7 | Downstream | 0104-0103   | 104   | 103   | Vitrified Clay Pipe            | 8  | 25th St                  | 200   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 34.5  | Upstream   | 0652-0616   | 652   | 616   | Concrete Pipe (non-reinforced) | 8  | PACIFIC COAST HWY        | 281   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 375.9 | Downstream | 0287-0248   | 287   | 248   | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY        | 340   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 3     | Downstream | 0142A-0142B | 0142A | 0142B | Vitrified Clay Pipe            | 8  | PIER AVE                 | 60    | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 18.1  | Upstream   | 0142A-0142B | 0142A | 0142B | Vitrified Clay Pipe            | 8  | PIER AVE                 | 60    | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 14    | Upstream   | 1128-1127   | 1128  | 1127  | Vitrified Clay Pipe            | 8  | 2nd St                   | 262   | 2100 | 2   | 2 | 0    | 0   | 0 | 2100 | 2   | 2 |
| 301.6 | Downstream | 0685-0688   | 685   | 688   | Concrete Pipe (non-reinforced) | 8  | PROSPECT AVE             | 279   | 3111 | 4   | 2 | 211M | 61  | 1 | 3121 | 65  | 1 |
| 338.4 | Upstream   | 0269-0260   | 269   | 260   | Concrete Pipe (non-reinforced) | 8  | GENTRY ST                | 356   | 3212 | 8   | 2 | 211  | 45  | 1 | 3221 | 53  | 1 |
| 3     | Downstream | 0658-656A   | 658   | 656A  | Vitrified Clay Pipe            | 6  | EASEMENT                 | 448   | 2100 | 2   | 2 | 1100 | 1   | 1 | 2111 | 3   | 2 |
| 451.9 | Downstream | 688D-688C   | 688D  | 688C  | Vitrified Clay Pipe            | 6  | 8th PL                   | 420   | 4132 | 12  | 2 | 4231 | 40  | 1 | 4333 | 52  | 1 |
| 390.7 | Downstream | 0864B-0864  | 0864B | 864   | Vitrified Clay Pipe            | 6  | MONTEREY AVE             | 359   | 2111 | 3   | 2 | 4116 | 10  | 1 | 4121 | 13  | 1 |
| 109.9 | Downstream | 1130-1129   | 1130  | 1129  | Vitrified Clay Pipe            | 8  | 2nd St                   | 105   | 2111 | 3   | 2 | 1100 | 1   | 1 | 2112 | 4   | 1 |
| 391   | Downstream | 0174-0173   | 174   | 173   | Vitrified Clay Pipe            | 8  | 1st Ct                   | 373   | 3221 | 10  | 2 | 1400 | 4   | 1 | 3221 | 14  | 2 |
| 409.8 | Downstream | 656A-0655   | 656A  | 655   | Concrete Pipe (non-reinforced) | 8  | EASEMENT                 | 199   | 2111 | 3   | 2 | 413K | 242 | 2 | 413K | 245 | 2 |
| 171.5 | Upstream   | 0815-0814   | 815   | 813   | Concrete Pipe (non-reinforced) | 8  | AVIATION BLVD            | 400.7 | 5148 | 79  | 2 | 2100 | 2   | 2 | 5148 | 81  | 2 |
| 167.4 | Upstream   | 0850-848X   | 850   | 848X  | Concrete Pipe (non-reinforced) | 8  | OWOSSO AVE               | 60    | 2121 | 5   | 2 | 2100 | 2   | 2 | 3122 | 8   | 2 |
| 62    | Upstream   | 0767-0766   | 767   | 766   | Concrete Pipe (non-reinforced) | 8  | 21ST ST                  | 459   | 2111 | 3   | 2 | 2100 | 3   | 2 | 2211 | 5   | 2 |
| 167.2 | Downstream | 0323-0322   | 323   | 322   | Concrete Pipe (non-reinforced) | 8  | HARPER AVE               | 240   | 5342 | 57  | 2 | 3C19 | 75  | 2 | 5342 | 132 | 2 |
| 358.8 | Downstream | 734-729     | 734   | 729   | Vitrified Clay Pipe            | 8  | 25th St                  | 333   | 3212 | 8   | 2 | 3315 | 14  | 2 | 3517 | 22  | 2 |
| 66.6  | Downstream | 299-298     | 299   | 298   | Concrete Pipe (non-reinforced) | 8  | 5th St                   | 195   | 2100 | 2   | 2 | 2100 | 2   | 2 | 2200 | 4   | 2 |
| 249.4 | Downstream | 42-41       | 42    | 41    | Vitrified Clay Pipe            | 8  | 33rd PL                  | 288   | 2100 | 2   | 2 | 4134 | 31  | 2 | 4134 | 33  | 2 |
| 283.2 | Downstream | 0584-0510   | 584   | 510   | Concrete Pipe (non-reinforced) | 10 | 25th St                  | 291   | 2111 | 3   | 2 | 2111 | 3   | 2 | 2212 | 6   | 2 |
| 160.6 | Downstream | 0864A-0864C | 0864A | 0864C | Vitrified Clay Pipe            | 8  | MONTEREY AVE             | 487   | 2100 | 2   | 2 | 2300 | 6   | 2 | 2400 | 8   | 2 |
| 346.6 | Downstream | 0143X       |       |       |                                |    |                          |       |      |     |   |      |     |   |      |     |   |



|       |            |                     |          |                          |                                |                            |                                |       |   |   |   |   |   |   |   |   |   |   |   |
|-------|------------|---------------------|----------|--------------------------|--------------------------------|----------------------------|--------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|
| 235.1 | Downstream | 0783-0782           | 783      | 782                      | Vitrified Clay Pipe            | 8                          | PROSPECT AVE                   | 209   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 204.6 | Downstream | 0785-0782           | 785      | 782                      | Vitrified Clay Pipe            | 8                          | PROSPECT AVE                   | 194   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68.9  | Downstream | 811A-0810           | 811A     | 810                      | Vitrified Clay Pipe            | 8                          | PACIFIC COAST HWY-EASEMENT     | 149   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 137.8 | Downstream | 0763-0762           | 0763A    | 762                      | Vitrified Clay Pipe            | 8                          | 21ST ST                        | 120.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.9  | Downstream | 0762-0761           | 762      | 761                      | Vitrified Clay Pipe            | 8                          | 21ST ST                        | 83.4  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140.6 | Downstream | 0761-0757           | 761      | 757                      | Vitrified Clay Pipe            | 8                          | 21ST ST                        | 119   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41.5  | Downstream | 0782-782A           | 782      | 782A                     | Vitrified Clay Pipe            | 8                          | 18TH ST                        | 42    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 138.6 | Downstream | 0780-1165           | 780      | 1165                     | Vitrified Clay Pipe            | 8                          | 18TH ST                        | 135   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 392.4 | Downstream | 0790-0788           | 790      | 788                      | Concrete Pipe (non-reinforced) | 8                          | RHODES ST                      | 142   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 151.5 | Downstream | 0771-0764           | 771      | 764                      | Concrete Pipe (non-reinforced) | 8                          | HILLCREST DR                   | 365   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 81    | Upstream   | 0776-0775           | 776      | 775                      | Concrete Pipe (non-reinforced) | 8                          | ALLEY                          | 136   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 134.6 | Downstream | 324F-324E           | 324F     | 324E                     | Vitrified Clay Pipe            | 8                          | 17TH ST                        | 106   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39.1  | Downstream | 0270-0254           | 270      | 254                      | Concrete Pipe (non-reinforced) | 8                          | 5TH ST                         | 104   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 156.4 | Downstream | 0255-0254           | 255      | 254                      | Concrete Pipe (non-reinforced) | 8                          | HOPKINS AVE                    | 28    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 349.6 | Upstream   | 0277-0276           | 277      | 276                      | Concrete Pipe (non-reinforced) | 8                          | OCEAN VIEW AVE                 | 165   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 357.8 | Upstream   | 0683-0682           | 683      | 682                      | Vitrified Clay Pipe            | 8                          | 6TH ST                         | 356   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 357.8 | Downstream | 0673-0671           | 673      | 671                      | Concrete Pipe (non-reinforced) | 8                          | 9TH ST                         | 377   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 128.6 | Upstream   | 0676-0675           | 676      | 675                      | Concrete Pipe (non-reinforced) | 8                          | 8TH ST                         | 130   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 141.8 | Upstream   | 0684-0679           | 684      | 679                      | Concrete Pipe (non-reinforced) | 8                          | PROSPECT AVE                   | 120   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 204.1 | Downstream | 0880-0784           | 880      | 784                      | Concrete Pipe (non-reinforced) | 8                          | RAYMOND AVE                    | 203   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 343.3 | Downstream | 0284-0283           | 284      | 283                      | Concrete Pipe (non-reinforced) | 8                          | 3RD ST                         | 378   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41.4  | Downstream | 0282-281            | 282      | 281                      | Concrete Pipe (non-reinforced) | 8                          | 3RD ST                         | 378   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34    | Downstream | 0262-0261           | 262      | 261                      | Concrete Pipe (non-reinforced) | 8                          | PROSPECT AVE                   | 38    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.8 | Downstream | 0260-0259           | 260      | 259                      | Concrete Pipe (non-reinforced) | 8                          | PROSPECT AVE                   | 152   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 230.2 | Downstream | 0258-0257           | 258      | 257                      | Concrete Pipe (non-reinforced) | 8                          | 6TH ST                         | 222   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 384.6 | Downstream | 0203-0202           | 203      | 202                      | Concrete Pipe (non-reinforced) | 8                          | 1ST ST                         | 347   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19.3  | Upstream   | PEN BOX TO OPEN BOX | MH-1     | Reinforced Concrete Pipe | 24                             | IDYLWOOD DR FERNWOOD M.H.P | 0                              | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 121   | Downstream | 12-11               | Sta46+30 | Sta45+11                 | Vitrified Clay Pipe            | 8                          | JAY ST PM 19612 SEQUENCE 1     | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 357.4 | Downstream | 11-10               | Sta45+11 | Sta41+61                 | Vitrified Clay Pipe            | 8                          | JAY ST PM 19612 SEQUENCE 1     | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 356.5 | Downstream | 10-9                | Sta41+61 | Sta38+11                 | Vitrified Clay Pipe            | 8                          | JAY ST PM 19612 SEQUENCE 1     | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 355.1 | Downstream | 9-8                 | Sta38+11 | Sta34+61                 | Vitrified Clay Pipe            | 8                          | JAY ST PM 19612 SEQUENCE 1     | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 356.8 | Downstream | 8-7                 | Sta34+61 | Sta31+11                 | Vitrified Clay Pipe            | 8                          | JAY ST PM 19612 SEQUENCE 1     | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 355.7 | Downstream | 7-6                 | Sta31+11 | Sta27+61                 | Vitrified Clay Pipe            | 8                          | JAY ST PM 19612 SEQUENCE 1     | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 294   | Downstream | 6-5                 | Sta27+61 | Sta24+75                 | Vitrified Clay Pipe            | 8                          | DEL RIO PL PM 19612 SEQUENCE 1 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 297.1 | Downstream | 5-4                 | Sta24+75 | Sta21+80                 | Vitrified Clay Pipe            | 8                          | DEL RIO PL PM 19612 SEQUENCE 1 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0     | Downstream | 4-3                 | Sta21+80 | Sta18+85                 | Vitrified Clay Pipe            | 8                          | DEL RIO PL PM 19612 SEQUENCE 1 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 299.9 | Downstream | 4-3                 | Sta21+80 | Sta18+85                 | Vitrified Clay Pipe            | 10                         | DEL RIO PL PM 19612 SEQUENCE 1 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0     | Downstream | 3-2                 | Sta18+85 | Sta15+90                 | Vitrified Clay Pipe            | 10                         | DEL RIO PL PM 19612 SEQUENCE 1 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 303.7 | Downstream | 3-2                 | Sta18+85 | Sta15+90                 | Vitrified Clay Pipe            | 10                         | DEL RIO PL PM 19612 SEQUENCE 1 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0     | Downstream | 1-13                | Sta15+90 | Sta12+95                 | Vitrified Clay Pipe            | 10                         | DEL RIO PL PM 19612 SEQUENCE 1 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 300.5 | Downstream | 1-13                | Sta12+95 | Sta10+00                 | Vitrified Clay Pipe            | 10                         | DEL RIO PL PM 19612 SEQUENCE 1 | 0     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 198.2 | Upstream   | 0225-0223           | 225      | 223                      | Other                          | 8                          | ARDMORE AVE                    | 169   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 212.7 | Upstream   | 17                  | 16       | 17                       | Vitrified Clay Pipe            | 8                          | THE STRAND                     | 240   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 257.8 | Downstream | 16                  | 15       | 16                       | Vitrified Clay Pipe            | 8                          | THE STRAND                     | 248   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 254.8 | Downstream | 15                  | 14       | 15                       | Vitrified Clay Pipe            | 8                          | THE STRAND                     | 235   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 256.9 | Upstream   | 14                  | 13       | 14                       | Vitrified Clay Pipe            | 8                          | THE STRAND                     | 244   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18.7  | Downstream | 1095B 1094A         | 1095B    | 1094A                    | Polyvinyl Chloride             | 12                         | BEACH DR                       | 20    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28.4  | Upstream   | 1085-1085A          | 1085     | 1085A                    | Vitrified Clay Pipe            | 8                          | 24TH St                        | 20    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.3  | Downstream | 1085A 1084A         | 1085A    | 1084A                    | Polyvinyl Chloride             | 18                         | 24TH St                        | 35    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 114.9 | Downstream | 1084A 1084          | 1084A    | 1084                     | Polyvinyl Chloride             | 18                         | BEACH DR                       | 200   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39.7  | Downstream | 1093A 1093C         | 1093A    | 1093C                    | Vitrified Clay Pipe            | 8                          | THE STRAND                     | 30    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 91.6  | Downstream | 1093C 1093          | 1093C    | 1093                     | Vitrified Clay Pipe            | 8                          | THE STRAND                     | 99    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 159.4 | Upstream   | 1094 1093           | 1094     | 1093                     | Vitrified Clay Pipe            | 10                         | BEACH DR                       | 140   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 211.2 | Downstream | 161 157             | 161      | 157                      | Vitrified Clay Pipe            | 8                          | LOMA DR                        | 191   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 240.3 | Downstream | 150 159A            | 150      | 159                      | Vitrified Clay Pipe            | 8                          | LOMA DR                        | 631   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 245.2 | Downstream | 159A 158            | 159A     | 158                      | Vitrified Clay Pipe            | 8                          | LOMA DR                        | 631   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 262   | Downstream | 160B 159            | 160B     | 159                      | Vitrified Clay Pipe            | 8                          | LOMA DR                        | 703   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 211.6 | Downstream | 159B 159A           | 159B     | 159A                     | Vitrified Clay Pipe            | 8                          | 8th St                         | 200   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 250.2 | Upstream   | 160 160A            | 160      | 160A                     | Vitrified Clay Pipe            | 8                          | LOMA DR                        | 703   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 464.5 | Downstream | 1073 1072           | 1073     | 1072                     | Polyvinyl Chloride             | 12                         | 14TH St                        | 434   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 98.1  | Upstream   | 1073A 1073A         | 1073     | 1073A                    | Vitrified Clay Pipe            | 8                          | BEACH DR                       | 110   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 207.6 | Downstream | 739 726             | 739      | 726                      | Vitrified Clay Pipe            | 8                          | 21st St                        | 204   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 142   | Downstream | 744 725             | 744      | 725                      | Vitrified Clay Pipe            | 8                          | AVA AVE ALLEY                  | 134   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 305.4 | Upstream   | 692 691             | 692      | 691                      | Concrete Pipe (non-reinforced) | 8                          | ARDMORE AVE                    | 299   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 262.7 | Downstream | 690 689             | 690      | 689                      | Vitrified Clay Pipe            | 8                          | ARDMORE AVE                    | 256   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38.2  | Upstream   | 688C 688B           | 688C     | 688B                     | Vitrified Clay Pipe            | 8                          | 16th St                        | 50    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 206   | Downstream | 693B 692            | 693B     | 692                      | Concrete Pipe (non-reinforced) | 6                          | 11TH PI EASEMENT               | 369   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 251.9 | Downstream | 729 728             | 729      | 728                      | Vitrified Clay Pipe            | 8                          | ARDMORE AVE                    | 220   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 440   | Downstream | 695 690             | 695      | 690                      | Concrete Pipe (non-reinforced) | 6                          | 10th St                        | 425   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 308.3 | Downstream | 700 697             | 700      | 697                      | Concrete Pipe (non-reinforced) | 6                          | 7th St                         | 281   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105.3 | Downstream | 302 301             | 302      | 301                      | Concrete Pipe (non-reinforced) | 8                          | 5th St                         | 115   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72.9  | Downstream | 301 300             | 301      | 300                      | Concrete Pipe (non-reinforced) | 8                          | 5th St                         | 37    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 148.5 | Downstream | 298 297             | 298      | 297                      | Concrete Pipe (non-reinforced) | 8                          | ARDMORE AVE                    | 133   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69.7  | Downstream | 296 295             | 296      | 295                      | Vitrified Clay Pipe            | 8                          | ARDMORE AVE                    | 53    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90.5  | Downstream | 296A 296            | 296A     | 296                      | Concrete Pipe (non-reinforced) | 8                          | 45th St                        | 248   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.7 | Downstream | 243 242             | 243      | 242                      | Concrete Pipe (non-reinforced) | 8                          | 3rd St                         | 175   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40.2  | Upstream   | 115 731             | Cap      | 731                      | Concrete Pipe (non-reinforced) | 8                          | ARDMORE AVE                    | 100   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93.2  | Downstream | 133X 130            | 133X     | 130                      | Vitrified Clay Pipe            | 8                          | LOMA DR                        | 98    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 196   | Downstream | 246 245             | 246      | 245                      | Vitrified Clay Pipe            | 8                          | 3rd St                         | 161   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59.1  | Downstream | 241 C0240           | 241      | C0240                    | Vitrified Clay Pipe            | 8                          | 3rd St EASEMENT                | 85    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 260.2 | Downstream | 316 313             | 316      | 313                      | Concrete Pipe (non-reinforced) | 8                          | 6th St                         | 280   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 424   | Downstream | 312 311             | 312      | 311                      | Vitrified Clay Pipe            | 8                          | CYPRESS AVE EASEMENT           | 387   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 213.8 | Downstream | 314 313             | 314      | 313                      | Concrete Pipe (non-reinforced) |                            |                                |       |   |   |   |   |   |   |   |   |   |   |   |

CCTV Pipe Data

|       |            |       |       |       |       |                                |    |                       |       |   |   |      |      |    |      |      |     |     |   |
|-------|------------|-------|-------|-------|-------|--------------------------------|----|-----------------------|-------|---|---|------|------|----|------|------|-----|-----|---|
| 306.8 | Downstream | 0687  | 0687A | 687   | 0687A | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY     | 459   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 10.2  | Downstream | 0687A | 0687C | 0687A | 0687C | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY     | 25    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 12.1  | Downstream | 0687C | 0687B | 0687C | 0687B | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY     | 25    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 154.7 | Downstream | 0288  | 0287  | 288   | 287   | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY     | 172   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 267.5 | Downstream | 0157  | 0153  | 157   | 153   | Vitrified Clay Pipe            | 8  | 6th ST                | 242   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 85.8  | Downstream | 0152A | 0151  | 0152A | 151   | Vitrified Clay Pipe            | 8  | MONTEREY BLVD         | 95    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 13.7  | Downstream | 0558  | 0557  | 558   | 557   | Polyethylene                   | 8  | AMBY EASEMENT         | 15    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 96.8  | Downstream | 0555  | 0554  | 555   | 554   | Vitrified Clay Pipe            | 8  | GOULD TER EASEMENT    | 100   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 45.2  | Downstream | 0554  | 0553  | 554   | 553   | Vitrified Clay Pipe            | 8  | GOULD TER EASEMENT    | 44    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 315.5 | Downstream | 0759  | 0758  | 759   | 758   | Concrete Pipe (non-reinforced) | 8  | PACIFIC COAST HWY     | 332   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 177   | Downstream | 0742  | 0741  | 742   | 741   | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY     | 157   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 34.9  | Downstream | 0142  | 0142A | 142   | 0142A | Vitrified Clay Pipe            | 8  | PIER AVE              | 60    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 114.1 | Downstream | 1116  | 1115  | 1116  | 1115  | Polyvinyl Chloride             | 8  | 8th St                | 124   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 38.6  | Downstream | 0753  | 0752  | 753   | 752   | Concrete Pipe (non-reinforced) | 8  | PACIFIC COAST HWY     | 38    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 26.2  | Upstream   | 0779  | 0755  | 779   | 755   | Concrete Pipe (non-reinforced) | 8  | PACIFIC COAST HWY     | 25    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 307.3 | Downstream | 0856  | 0807  | 856   | 807   | Concrete Pipe (non-reinforced) | 8  | PACIFIC COAST HWY     | 288   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 71.4  | Downstream | 0856A | 0856  | 0856A | 856   | Concrete Pipe (non-reinforced) | 8  | 15th St               | 75    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 532.4 | Downstream | 1119  | 1116  | 1119  | 1093  | Polyvinyl Chloride             | 8  | BAYVIEW DR            | 539   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 119 | 119 | 0 |
| 152.5 | Downstream | 0142B | 0142C | 0142B | 0142C | Vitrified Clay Pipe            | 8  | PIER AVE              | 95    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 89.3  | Downstream | 0142C | 0141  | 0142C | 141   | Vitrified Clay Pipe            | 8  | PIER AVE              | 60    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 271   | Downstream | 0141A | 0141  | 0141A | 141   | Vitrified Clay Pipe            | 6  | MANHATTAN AVE         | 310   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 8     | Downstream | 0141  | C0140 | 141   | C0140 | Vitrified Clay Pipe            | 8  | MANHATTAN AVE         | 10    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 30.4  | Downstream | 0576  | 0575  | 576   | 575   | Vitrified Clay Pipe            | 8  | VALLEY PARK EASEMENT  | 42    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 404.3 | Downstream | 0609A | 0608  | 0609A | 608   | Vitrified Clay Pipe            | 15 | VALLEY DR             | 338   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 276.8 | Downstream | 0610  | 0609  | 610   | 609   | Vitrified Clay Pipe            | 15 | VALLEY DR             | 296   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 129.9 | Downstream | 0611  | 0610  | 611   | 610   | Concrete Pipe (non-reinforced) | 12 | 8th St                | 141   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 308   | Downstream | 0607  | 0606  | 607   | 606   | Vitrified Clay Pipe            | 15 | VALLEY DR             | 405   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 388.8 | Downstream | 0604  | 0603A | 604   | 0603A | Polyethylene                   | 12 | VALLEY DR EASEMENT    | 514   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 152.2 | Downstream | 0603A | 0603  | 0603A | 603   | Polyethylene                   | 12 | VALLEY DR EASEMENT    | 250   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 411.4 | Downstream | 0501  | C0500 | 501   | C0500 | Concrete Pipe (non-reinforced) | 18 | MONTEREY AVE EASEMENT | 278   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 90.4  | Downstream | 0845  | 0807  | 845   | 807   | Concrete Pipe (non-reinforced) | 8  | PACIFIC COAST HWY     | 77    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 71    | Upstream   | 1132B | 1132C | 1132B | 1132C | Vitrified Clay Pipe            | 8  | 2nd St                | 120   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 266   | Downstream | 1132F | 1132G | 1132F | 1132G | Vitrified Clay Pipe            | 8  | HERONDO ST            | 300   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 113.9 | Upstream   | 0802  | 0801  | 802   | 801   | Vitrified Clay Pipe            | 8  | ARDMORE AVE EASEMENT  | 200   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 358.9 | Downstream | 1106  | 1106A | 1106  | 1106A | Vitrified Clay Pipe            | 8  | HERMOSA AVE           | 332   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 13.7  | Upstream   | 1106  | 1105A | 1106  | 1105A | Vitrified Clay Pipe            | 10 | HERMOSA AVE           | 30    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 18.2  | Downstream | 1104  | 1013  | 1104  | 1013  | Vitrified Clay Pipe            | 10 | HERMOSA AVE           | 52    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 395.7 | Downstream | 1011  | 1010  | 1011  | 1010  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 329   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 302.5 | Downstream | 1012  | 1011  | 1012  | 1011  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 337   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 88.5  | Upstream   | 1013  | 1012  | 1013  | 1012  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 137   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 96.8  | Downstream | 1014C | 1013  | 1014C | 1013  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 80    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 144.7 | Downstream | 1014  | 1014B | 1014  | 1014B | Vitrified Clay Pipe            | 18 | HERMOSA AVE           | 110   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 13.1  | Upstream   | 1014B | 1014C | 1014B | 1014C | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 30    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 312.4 | Downstream | 1009  | 1008  | 1009  | 1008  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 345   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 345.2 | Downstream | 1010  | 1009  | 1010  | 1009  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 321   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 13.5  | Downstream | 1063B | 1063A | 1063B | 1063A | Vitrified Clay Pipe            | 8  | PALM DR               | 25    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 36.7  | Upstream   | 0055  | 0054  | 55    | 54    | Concrete Pipe (non-reinforced) | 8  | 28th Ct               |       | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 170.7 | Downstream | 1115  | 1112  | 1115  | 1112  | Vitrified Clay Pipe            | 8  | 8th st                | 154   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 111.5 | Downstream | 0023  | 0022  | 23    | 22    | Vitrified Clay Pipe            | 8  | PALM DR               | 108   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 93.1  | Downstream | 0022  | 0021  | 22    | 21    | Concrete Pipe (non-reinforced) | 8  | 27th St               | 86    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 266.1 | Upstream   | 1107A | 1107  | 1107A | 1107  | Vitrified Clay Pipe            | 8  | HERMOSA AVE           | 260   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 152.8 | Downstream | 1008  | 1008A | 1008  | 1008A | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 235   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 32.1  | Downstream | 0101A | C0100 | 0101A | C0100 | Vitrified Clay Pipe            | 8  | 25th St               | 30    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 271.4 | Downstream | 1007  | 1006  | 1007  | 1006  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 331   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 69.3  | Downstream | 1002  | 1001  | 1002  | 1001  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 80    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 25.6  | Downstream | 1001  | 0170  | 1001  | 170   | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 39    | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 0     | Downstream | 1093  | 1091  | 1093  | 1091  | Vitrified Clay Pipe            | 8  | BEACH DR              | 153   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 124.2 | Downstream | 1075  | 1074  | 1075  | 1074  | Vitrified Clay Pipe            | 8  | BEACH DR EASEMENT     | 129   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 293.9 | Downstream | 1006  | 1005  | 1006  | 1005  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 256   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 281.1 | Downstream | 1004  | 1003  | 1004  | 1003  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 339   | 0 | 0 | 0    | 0    | 0  | 0    | 0    | 0   | 0   | 0 |
| 154.2 | Downstream | 0639  | 0631  | 639   | 631   | Concrete Pipe (non-reinforced) | 8  | 11TH PL               | 176   | 0 | 0 | 1F00 | 32   | 1  | 1F00 | 32   | 1   | 1   | 0 |
| 143.1 | Downstream | 0653  | 652A  | 653   | 652A  | Concrete Pipe (non-reinforced) | 8  | EASEMENT              | 143.1 | 0 | 0 | 0    | 2113 | 5  | 1    | 2113 | 5   | 1   | 0 |
| 234.8 | Downstream | 0826  | 0822  | 826   | 822   | Concrete Pipe (non-reinforced) | 8  | 15TH ST               | 228   | 0 | 0 | 0    | 1100 | 1  | 1    | 1100 | 1   | 1   | 0 |
| 412.9 | Downstream | 0858  | 0857  | 858   | 857   | Concrete Pipe (non-reinforced) | 8  | 15TH ST               | 413   | 0 | 0 | 0    | 1100 | 1  | 1    | 1100 | 1   | 1   | 0 |
| 330.1 | Upstream   | 0273  | 0272  | 273   | 272   | Concrete Pipe (non-reinforced) | 8  | 4TH ST                | 306   | 0 | 0 | 0    | 5133 | 69 | 1    | 5133 | 69  | 1   | 0 |
| 185   | Downstream | 0259  | 0256  | 259   | 256   | Concrete Pipe (non-reinforced) | 8  | PROSPECT AVE          | 208   | 0 | 0 | 0    | 1800 | 18 | 1    | 1800 | 18  | 1   | 0 |
| 301.6 | Downstream | 158   | 157   | 158   | 157   | Vitrified Clay Pipe            | 8  | LOMA DR               | 198   | 0 | 0 | 0    | 1100 | 1  | 1    | 1100 | 1   | 1   | 0 |
| 290.2 | Downstream | 736   | 735   | 736   | 735   | Concrete Pipe (non-reinforced) | 8  | 24th PI               | 369   | 0 | 0 | 0    | 1200 | 2  | 1    | 1200 | 2   | 1   | 0 |
| 263.5 | Downstream | 738   | 737   | 738   | 737   | Concrete Pipe (non-reinforced) | 8  | 24th St               | 295   | 0 | 0 | 0    | 1800 | 8  | 1    | 1800 | 8   | 1   | 0 |
| 278.8 | Downstream | 130   | 129   | 130   | 129   | Vitrified Clay Pipe            | 8  | 19th St               | 263   | 0 | 0 | 0    | 1F00 | 33 | 1    | 1F00 | 33  | 1   | 0 |
| 30.1  | Downstream | 44    | 43    | 44    | 43    | Concrete Pipe (non-reinforced) | 8  | 32nd PL               | 33    | 0 | 0 | 0    | 1100 | 1  | 1    | 1100 | 1   | 1   | 0 |
| 301.6 | Downstream | 547   | 546   | 547   | 546   | Vitrified Clay Pipe            | 8  | 30th St EASEMENT      | 298   | 0 | 0 | 0    | 1400 | 4  | 1    | 1400 | 4   | 1   | 0 |
| 299.7 | Downstream | 546   | 545   | 546   | 545   | Vitrified Clay Pipe            | 8  | GOULD AVE ALLEY       | 302   | 0 | 0 | 0    | 1A00 | 11 | 1    | 1A00 | 11  | 1   | 0 |
| 185.4 | Downstream | 549   | 548   | 549   | 548   | Vitrified Clay Pipe            | 8  | 30th St               | 166   | 0 | 0 | 0    | 2113 | 5  | 1    | 2113 | 5   | 1   | 0 |
| 81.5  | Upstream   | C/OA  | 550   | C/OA  | 550   | Vitrified Clay Pipe            | 8  | MARLITA               | 4     | 0 | 0 | 0    | 1400 | 4  | 1    | 1400 | 4   | 1   | 0 |
| 347.8 | Downstream | 48    | 47    | 48    | 47    | Vitrified Clay Pipe            | 8  | 31th Pl               | 276   | 0 | 0 | 0    | 1100 | 1  | 1    | 1100 | 1   | 1   | 0 |
| 103.9 | Upstream   | 545   | 544   | 545   | 544   | Vitrified Clay Pipe            | 8  | GOULD AVE ALLEY       | 111   | 0 | 0 | 0    | 1100 | 1  | 1    | 1100 | 1   | 1   | 0 |
| 241.1 | Downstream | 0534  | 0533  | 534   | 533   | Vitrified Clay Pipe            | 8  | VALLEY PARK           | 222   | 0 | 0 | 0    | 1200 | 2  | 1    | 1200 | 2   | 1   | 0 |
| 24.9  | Downstream | 0002  | C0001 | 2     | C0001 | Concrete Pipe (non-reinforced) | 8  | NEPTUNE AVE           | 51    | 0 | 0 | 0    | 1100 | 1  | 1    | 1100 | 1   | 1   | 0 |
| 202.5 | Downstream | 0589  | 0589A | 589   | 0589A | Asbestos Cement                | 8  | 24th PL               | 346   | 0 | 0 | 0    | 1200 | 2  | 1    | 1200 | 2   | 1   | 0 |
| 151.4 | Downstream | 0589A | 0508  | 0589A | 508   | Concrete Pipe (non-reinforced) | 8  | 24th PL               | 346   | 0 | 0 | 0    | 1100 | 1  | 1    | 1100 | 1   | 1   | 0 |
| 76.8  | Upstream   | 1048  | 1047  | 1048  | 1047  | Concrete Pipe (non-reinforced) | 8  | PARK AVE              | 84    | 0 | 0 | 0    | 1200 | 2  |      |      |     |     |   |



CCTV Pipe Data

|       |            |       |       |       |       |                                |    |                       |       |   |   |   |      |     |   |      |     |   |
|-------|------------|-------|-------|-------|-------|--------------------------------|----|-----------------------|-------|---|---|---|------|-----|---|------|-----|---|
| 305.9 | Downstream | 543   | 542   | 543   | 542   | Vitrified Clay Pipe            | 8  | GOULD AVE             | 300   | 0 | 0 | 0 | 4131 | 10  | 2 | 4131 | 10  | 2 |
| 307.9 | Downstream | 542   | 541   | 542   | 541   | Vitrified Clay Pipe            | 8  | GOULD AVE             | 287   | 0 | 0 | 0 | 4115 | 9   | 2 | 4115 | 9   | 2 |
| 223.1 | Downstream | 541   | 540   | 541   | 540   | Vitrified Clay Pipe            | 8  | GOULD AVE             | 221   | 0 | 0 | 0 | 4113 | 7   | 2 | 4113 | 7   | 2 |
| 343.2 | Downstream | 89    | 88    | 89    | 88    | Concrete Pipe (non-reinforced) | 8  | LONGFELLOA AVE        | 325   | 0 | 0 | 0 | 4133 | 22  | 2 | 4133 | 22  | 2 |
| 218.9 | Downstream | 0533  | 0515  | 533   | 515   | Vitrified Clay Pipe            | 8  | VALLEY PARK           | 226   | 0 | 0 | 0 | 4111 | 5   | 2 | 4111 | 5   | 2 |
| 170.8 | Downstream | 0512A | 0511  | 0512A | 0511  | Vitrified Clay Pipe            | 10 | VALLEY PARK           | 181   | 0 | 0 | 0 | 2400 | 8   | 2 | 2400 | 8   | 2 |
| 153.9 | Downstream | 0582A | 0512  | 0582A | 512   | Vitrified Clay Pipe            | 8  | VALLEY PARK           | 321   | 0 | 0 | 0 | 2200 | 4   | 2 | 2200 | 4   | 2 |
| 332.3 | Downstream | 0010  | 0009  | 10    | 9     | Vitrified Clay Pipe            | 8  | HERMOSA AVE           | 313   | 0 | 0 | 0 | 2D00 | 50  | 2 | 2D00 | 50  | 2 |
| 331.1 | Downstream | 0009  | 0008  | 9     | 8     | Vitrified Clay Pipe            | 8  | HERMOSA AVE           | 347   | 0 | 0 | 0 | 3129 | 21  | 2 | 3129 | 21  | 2 |
| 173.9 | Upstream   | 0522  | 0522A | 522   | 0522A | Vitrified Clay Pipe            | 8  | 30th ST               | 631   | 0 | 0 | 0 | 3121 | 5   | 2 | 3121 | 5   | 2 |
| 178.2 | Upstream   | 0524  | 0523  | 524   | 523   | Concrete Pipe (non-reinforced) | 8  | 29th ST               | 173   | 0 | 0 | 0 | 3111 | 4   | 2 | 3111 | 4   | 2 |
| 154.4 | Downstream | 0510  | 0509  | 510   | 509   | Vitrified Clay Pipe            | 10 | 25th ST               | 160   | 0 | 0 | 0 | 4432 | 62  | 2 | 4432 | 62  | 2 |
| 228.8 | Downstream | 0517  | 0516  | 517   | 516   | Vitrified Clay Pipe            | 10 | INGLESIDE DR EASEMENT | 219   | 0 | 0 | 0 | 4124 | 18  | 2 | 4124 | 18  | 2 |
| 42.7  | Downstream | 0006  | C0005 | 6     | C0005 | Vitrified Clay Pipe            | 12 | HERMOSA AVE           | 50    | 0 | 0 | 0 | 2100 | 2   | 2 | 2100 | 2   | 2 |
| 391.8 | Downstream | 0007  | 0006  | 7     | 6     | Vitrified Clay Pipe            | 8  | HERMOSA AVE           | 388   | 0 | 0 | 0 | 2500 | 10  | 2 | 2500 | 10  | 2 |
| 164.6 | Downstream | 1050X | 1049  | 1050X | 1049  | Vitrified Clay Pipe            | 8  | LOMA DR               | 154   | 0 | 0 | 0 | 4133 | 15  | 2 | 4133 | 15  | 2 |
| 62.1  | Downstream | 0590  | 0507  | 590   | 507   | Vitrified Clay Pipe            | 8  | 24th ST               | 148   | 0 | 0 | 0 | 4123 | 10  | 2 | 4123 | 10  | 2 |
| 466.5 | Downstream | 0504  | 0504  | 504   | 505   | Concrete Pipe (non-reinforced) | 8  | 21st ST               | 462   | 0 | 0 | 0 | 2600 | 12  | 2 | 2600 | 12  | 2 |
| 478.8 | Downstream | 0595  | 0504  | 595   | 504   | Concrete Pipe (non-reinforced) | 8  | 20th ST               | 453   | 0 | 0 | 0 | 2111 | 3   | 2 | 2111 | 3   | 2 |
| 86.3  | Downstream | 0507  | 0506  | 507   | 506   | Vitrified Clay Pipe            | 15 | POWER ST              | 84    | 0 | 0 | 0 | 2300 | 6   | 2 | 2300 | 6   | 2 |
| 177.7 | Downstream | 0506  | 0505  | 506   | 505   | Concrete Pipe (non-reinforced) | 15 | POWER ST              | 402   | 0 | 0 | 0 | 4231 | 56  | 2 | 4231 | 56  | 2 |
| 238.6 | Downstream | 0505  | 0504  | 505   | 504   | Concrete Pipe (non-reinforced) | 15 | POWER ST              | 230   | 0 | 0 | 0 | 312B | 33  | 2 | 312B | 33  | 2 |
| 31.1  | Downstream | 0504D | 0503  | 0504D | 503   | Vitrified Clay Pipe            | 15 | POWER ST EASEMENT     | 360   | 0 | 0 | 0 | 2500 | 10  | 2 | 2500 | 10  | 2 |
| 418.5 | Downstream | 0107  | 0104  | 107   | 104   | Concrete Pipe (non-reinforced) | 8  | SILVERSTRAND AVE      | 412   | 0 | 0 | 0 | 4136 | 53  | 2 | 4136 | 53  | 2 |
| 164.9 | Downstream | 1041  | 1040  | 1041  | 1040  | Concrete Pipe (non-reinforced) | 8  | SILVERSTRAND AVE      | 153   | 0 | 0 | 0 | 3211 | 7   | 2 | 3211 | 7   | 2 |
| 218.3 | Downstream | 0113  | 0112  | 113   | 112   | Vitrified Clay Pipe            | 8  | OZONE CT              | 204   | 0 | 0 | 0 | 472D | 74  | 2 | 472D | 74  | 2 |
| 527.4 | Downstream | 0128  | 0127  | 128   | 127   | Vitrified Clay Pipe            | 6  | BAYVIEW DR            | 572   | 0 | 0 | 0 | 4535 | 60  | 2 | 4535 | 60  | 2 |
| 201.8 | Downstream | 0112  | 1152  | 112   | 1152  | Vitrified Clay Pipe            | 8  | OZONE CT              | 193   | 0 | 0 | 0 | 412A | 26  | 2 | 412A | 26  | 2 |
| 120.2 | Downstream | 1044  | 1043  | 1044  | 1043  | Vitrified Clay Pipe            | 6  | LOMA DR               | 105   | 0 | 0 | 0 | 4111 | 5   | 2 | 4111 | 5   | 2 |
| 182   | Downstream | 86    | 79    | 86    | 79    | Concrete Pipe (non-reinforced) | 8  | LONGFELLOW AVE        | 185   | 0 | 0 | 0 | 4133 | 22  | 2 | 4133 | 22  | 2 |
| 188.8 | Downstream | 0072  | 0071  | 72    | 71    | Concrete Pipe (non-reinforced) | 10 | LONGFELLOW AVE        | 173   | 0 | 0 | 0 | 2A00 | 26  | 2 | 2A00 | 26  | 2 |
| 362.5 | Upstream   | 0864  | 0863  | 864   | 863   | Concrete Pipe (non-reinforced) | 8  | PIER AVE              | 384   | 0 | 0 | 0 | 3121 | 5   | 2 | 3121 | 5   | 2 |
| 143.4 | Upstream   | 0866  | 0861  | 866   | 861   | Concrete Pipe (non-reinforced) | 8  | OAK ST                | 136   | 0 | 0 | 0 | 3314 | 13  | 2 | 3314 | 13  | 2 |
| 230.8 | Downstream | 0566  | 0538  | 566   | 538   | Vitrified Clay Pipe            | 8  | ARMORE AVE            | 212   | 0 | 0 | 0 | 3212 | 8   | 2 | 3212 | 8   | 2 |
| 128.1 | Upstream   | 1028  | 1027  | 1028  | 1027  | Vitrified Clay Pipe            | 8  | HERMOSA AVE           | 414   | 0 | 0 | 0 | 3111 | 4   | 2 | 3111 | 4   | 2 |
| 399.9 | Downstream | 1024  | 1023  | 1024  | 1023  | Vitrified Clay Pipe            | 8  | HERMOSA AVE           | 391   | 0 | 0 | 0 | 312B | 34  | 2 | 312B | 34  | 2 |
| 421.6 | Upstream   | 1038A | 1037  | 1038A | 1037  | Vitrified Clay Pipe            | 6  | MANHATTAN AVE         | 298   | 0 | 0 | 0 | 4132 | 20  | 2 | 4132 | 20  | 2 |
| 222.6 | Downstream | 1061  | 1060  | 1061  | 1060  | Concrete Pipe (non-reinforced) | 8  | MANHATTAN AVE         | 291   | 0 | 0 | 0 | 4332 | 27  | 2 | 4332 | 27  | 2 |
| 32.2  | Downstream | 1059A | 1059  | 1059A | 1059  | Vitrified Clay Pipe            | 8  | CIRCLE DR             | 55    | 0 | 0 | 0 | 2300 | 6   | 2 | 2300 | 6   | 2 |
| 46.5  | Downstream | 1016  | 1014  | 1016  | 1014  | Vitrified Clay Pipe            | 10 | HERMOSA AVE           | 59    | 0 | 0 | 0 | 2711 | 15  | 2 | 2711 | 15  | 2 |
| 276.2 | Downstream | 1108A | 1108  | 1108A | 1108  | Vitrified Clay Pipe            | 8  | HERMOSA AVE           | 225   | 0 | 0 | 0 | 3224 | 14  | 2 | 3224 | 14  | 2 |
| 282.2 | Downstream | 1019  | 1018  | 1019  | 1018  | Vitrified Clay Pipe            | 10 | HERMOSA AVE           | 271   | 0 | 0 | 0 | 2400 | 8   | 2 | 2400 | 8   | 2 |
| 415.5 | Downstream | 0719  | 0718  | 719   | 718   | Concrete Pipe (non-reinforced) | 8  | CYPRESS AVE           | 419   | 0 | 0 | 0 | 2200 | 4   | 2 | 2200 | 4   | 2 |
| 199.3 | Downstream | 0123  | 0123A | 123   | 0123A | Vitrified Clay Pipe            | 8  | 16th ST               | 155   | 0 | 0 | 0 | 3121 | 5   | 2 | 3121 | 5   | 2 |
| 111.4 | Downstream | 1070B | 1070  | 1070B | 1070  | Vitrified Clay Pipe            | 8  | MANHATTAN AVE         | 200   | 0 | 0 | 0 | 2100 | 2   | 2 | 2100 | 2   | 2 |
| 470.6 | Upstream   | 0121B | 0121  | 0121B | 121   | Vitrified Clay Pipe            | 6  | MANHATTAN AVE         | 148   | 0 | 0 | 0 | 4637 | 59  | 2 | 4637 | 59  | 2 |
| 37.2  | Downstream | 0121B | 0121  | 0121B | 121   | Concrete Pipe (non-reinforced) | 6  | MANHATTAN AVE         | 148   | 0 | 0 | 0 | 4112 | 6   | 2 | 4112 | 6   | 2 |
| 207   | Downstream | 0600  | 0597  | 600   | 597   | Vitrified Clay Pipe            | 8  | 18th ST               | 203   | 0 | 0 | 0 | 4112 | 6   | 2 | 4112 | 6   | 2 |
| 201.1 | Downstream | 0707  | 0703A | 707   | 0703A | Concrete Pipe (non-reinforced) | 8  | BARD ST               | 216   | 0 | 0 | 0 | 2800 | 16  | 2 | 2800 | 16  | 2 |
| 78.8  | Downstream | 0219  | 0206  | 219   | 206   | Concrete Pipe (non-reinforced) | 8  | PACIFIC COAST HWY     | 75    | 0 | 0 | 0 | 2100 | 2   | 2 | 2100 | 2   | 2 |
| 419.9 | Upstream   | 0220  | 0205  | 220   | 205   | Concrete Pipe (non-reinforced) | 8  | 1st ST                | 405   | 0 | 0 | 0 | 3113 | 6   | 2 | 3113 | 6   | 2 |
| 108.6 | Downstream | 0249  | 0249  | 249   | 249   | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY     | 112   | 0 | 0 | 0 | 2400 | 24  | 2 | 2400 | 24  | 2 |
| 26.2  | Downstream | 0249  | 0247  | 249   | 247   | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY     | 48    | 0 | 0 | 0 | 2200 | 4   | 2 | 2200 | 4   | 2 |
| 4     | Upstream   | 0613  | 0612  | 613   | 612   | Concrete Pipe (non-reinforced) | 10 | 8th ST                | 428   | 0 | 0 | 0 | 2100 | 2   | 2 | 2100 | 2   | 2 |
| 202.4 | Downstream | 0612  | 0611  | 612   | 611   | Concrete Pipe (non-reinforced) | 10 | 8th ST                | 472   | 0 | 0 | 0 | 3111 | 4   | 2 | 3111 | 4   | 2 |
| 210.3 | Downstream | 0293  | 0248  | 293   | 248   | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY     | 208   | 0 | 0 | 0 | 2100 | 2   | 2 | 2100 | 2   | 2 |
| 180.9 | Upstream   | 0559  | 0558  | 559   | 558   | Vitrified Clay Pipe            | 8  | AMBY EASEMENT         | 401   | 0 | 0 | 0 | 4111 | 5   | 2 | 4111 | 5   | 2 |
| 409   | Downstream | 0758  | 0757  | 758   | 757   | Concrete Pipe (non-reinforced) | 8  | PACIFIC COAST HWY     | 416   | 0 | 0 | 0 | 2100 | 2   | 2 | 2100 | 2   | 2 |
| 176.7 | Downstream | 0265  | 0263  | 265   | 263   | Concrete Pipe (non-reinforced) | 8  | MASSEY                | 170   | 0 | 0 | 0 | 2600 | 12  | 2 | 2600 | 12  | 2 |
| 132.2 | Downstream | 1121  | 1120  | 1121  | 1120  | Vitrified Clay Pipe            | 8  | 4th St                | 124   | 0 | 0 | 0 | 4331 | 22  | 2 | 4331 | 22  | 2 |
| 65.4  | Downstream | 0792  | 0791  | 792   | 791   | Concrete Pipe (non-reinforced) | 8  | 17th St               | 64    | 0 | 0 | 0 | 2100 | 2   | 2 | 2100 | 2   | 2 |
| 160.7 | Downstream | 0580  | 0579  | 580   | 579   | Vitrified Clay Pipe            | 8  | PORTER LN EASEMENT    | 161   | 0 | 0 | 0 | 4631 | 40  | 2 | 4631 | 40  | 2 |
| 519.9 | Upstream   | 1135  | 1131  | 1135  | 1131  | Vitrified Clay Pipe            | 8  | MONTEREY BLVD         | 498   | 0 | 0 | 0 | 4131 | 14  | 2 | 4131 | 14  | 2 |
| 114   | Upstream   | 1132  | 1131  | 1132  | 1131  | Concrete Pipe (non-reinforced) | 8  | 2nd St                | 113   | 0 | 0 | 0 | 2111 | 3   | 2 | 2111 | 3   | 2 |
| 222.1 | Downstream | 0609  | 0609A | 609   | 0609A | Vitrified Clay Pipe            | 15 | VALLEY DR             | 200   | 0 | 0 | 0 | 2800 | 30  | 2 | 2800 | 30  | 2 |
| 303   | Downstream | 1132D | 1132E | 1132D | 1132E | Vitrified Clay Pipe            | 8  | VALLEY DR             | 350   | 0 | 0 | 0 | 2400 | 8   | 2 | 2400 | 8   | 2 |
| 132   | Downstream | 1132C | 1132D | 1132C | 1132D | Vitrified Clay Pipe            | 8  | 2nd St                | 90    | 0 | 0 | 0 | 2300 | 6   | 2 | 2300 | 6   | 2 |
| 308.4 | Downstream | 1139  | 1138  | 1139  | 1138  | Concrete Pipe (non-reinforced) | 8  | MANHATTAN AVE         | 0     | 0 | 0 | 0 | 3226 | 20  | 2 | 3226 | 20  | 2 |
| 266.2 | Downstream | 1110A | 1110  | 1110A | 1110  | Vitrified Clay Pipe            | 8  | PALM DR               | 538   | 0 | 0 | 0 | 3124 | 11  | 2 | 3124 | 11  | 2 |
| 284.4 | Downstream | 1111  | 1110A | 1111  | 1110A | Vitrified Clay Pipe            | 8  | PALM DR               | 538   | 0 | 0 | 0 | 2500 | 10  | 2 | 2500 | 10  | 2 |
| 410.8 | Downstream | 0126A | 0122  | 0126A | 122   | Vitrified Clay Pipe            | 6  | BAYVIEW DR            | 430   | 0 | 0 | 0 | 4238 | 64  | 2 | 4238 | 64  | 2 |
| 187.6 | Downstream | 1115B | 1115  | 1115B | 1115  | Vitrified Clay Pipe            | 6  | MANHATTAN AVE         | 0     | 0 | 0 | 0 | 4233 | 26  | 2 | 4233 | 26  | 2 |
| 166.2 | Downstream | 0054  | 0023  | 54    | 23    | Vitrified Clay Pipe            | 6  | 28th Ct               | 177   | 0 | 0 | 0 | 4121 | 7   | 2 | 4121 | 7   | 2 |
| 77.1  | Downstream | 0021  | C0020 | 21    | C0020 | Concrete Pipe (non-reinforced) | 8  | HERMOSA AVE           | 0     | 0 | 0 | 0 | 2700 | 14  | 2 | 2700 | 14  | 2 |
| 514.7 | Downstream | 1108A | 1108  | 1108A | 1108  | Vitrified Clay Pipe            | 8  | HERMOSA AVE           | 300   | 0 | 0 | 0 | 2000 | 134 | 2 | 2000 | 134 | 2 |
| 528   | Downstream | 1008B | 1007  | 1008B | 1007  | Vitrified Clay Pipe            | 24 | HERMOSA AVE           | 325   | 0 | 0 | 0 | 2900 | 18  | 2 | 2900 | 18  | 2 |
| 159.5 | Downstream | 1093  | 1091  | 1093  | 1091  | Vitrified Clay Pipe            | 8  | BEACH DR              | 153   | 0 | 0 | 0 | 332B | 39  | 2 | 332B | 39  | 2 |
| 55.1  | Upstream   | 0650  | 0649  | 650   | 649   | Concrete Pipe (non-reinforced) | 8  | 9TH ST                | 360   | 0 | 0 | 0 | 3100 | 3   | 3 | 3100 | 3   | 3 |
| 375   | Downstream | 0831  | 0826  | 831   | 826   | Concrete Pipe (non-reinforced) | 8  | GOLDEN AVE            | 365   | 0 | 0 | 0 | 4137 | 28  | 3 | 4137 | 28  | 3 |
| 306.9 | Downstream | 0825  | 0825A | 825   | 0825A | Concrete Pipe (non-reinforced) | 8  | PROSPECT AVE          | 473.3 | 0 | 0 | 0 | 3A00 | 36  | 3 | 3A00 | 36  | 3 |
| 102.8 | Downstream | 0823  | 0822  | 823   | 822   | Concrete Pipe (non-reinforced) | 8  | PROSPECT AVE          | 238.4 | 0 | 0 | 0 | 3600 | 18  | 3 | 3600 | 18  | 3 |
| 77.9  | Downstream | 0822A | 0818A | 0822A | 0818A | Concrete Pipe (non-reinforced) | 8  | CORONA ST             | 273   | 0 | 0 | 0 | 4133 | 13  | 3 | 4133 | 13  | 3 |
| 280.1 |            |       |       |       |       |                                |    |                       |       |   |   |   |      |     |   |      |     |   |

CCTV Pipe Data

|       |            |             |       |       |       |                                |    |                          |     |   |   |   |      |     |   |      |     |   |
|-------|------------|-------------|-------|-------|-------|--------------------------------|----|--------------------------|-----|---|---|---|------|-----|---|------|-----|---|
| 179   | Downstream | 1091        | 1160  | 1091  | 1160  | Vitrified Clay Pipe            | 10 | 13th CT                  | 174 | 0 | 0 | 0 | 4200 | 8   | 4 | 4200 | 8   | 4 |
| 288.2 | Downstream | 91          | 90    | 91    | 90    | Vitrified Clay Pipe            | 8  | 33rd PL                  | 272 | 0 | 0 | 0 | 4131 | 7   | 4 | 4131 | 7   | 4 |
| 62.8  | Upstream   | 0571        | 0514  | 571   | 514   | Concrete Pipe (non-reinforced) | 8  | VALLEY PARK              | 313 | 0 | 0 | 0 | 5121 | 7   | 4 | 5121 | 7   | 4 |
| 26    | Downstream | 0526A       | 0526  | 0526A | 526   | Vitrified Clay Pipe            | 8  | 29th CT                  | 20  | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 266.1 | Upstream   | 0532        | 0531  | 532   | 531   | Vitrified Clay Pipe            | 8  | 28th CT                  | 242 | 0 | 0 | 0 | 4131 | 7   | 4 | 4131 | 7   | 4 |
| 408.1 | Downstream | 0507        | 0508  | 507   | 508   | Concrete Pipe (non-reinforced) | 8  | 24th PL                  | 354 | 0 | 0 | 0 | 4432 | 22  | 4 | 4432 | 22  | 4 |
| 30.7  | Downstream | 0504A       | 0504B | 0504A | 0504B | Vitrified Clay Pipe            | 15 | POWER ST EASEMENT        | 360 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 48.4  | Upstream   | 0504A-0504B | 0504A | 0504A | 0504B | Vitrified Clay Pipe            | 15 | POWER ST EASEMENT        | 360 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 258.2 | Upstream   | 0110        | 0109  | 110   | 109   | Concrete Pipe (non-reinforced) | 8  | MYRTLE AVE EASEMENT      | 260 | 0 | 0 | 0 | 4400 | 16  | 4 | 4400 | 16  | 4 |
| 122.2 | Upstream   | 0597        | 0596  | 597   | 596   | Vitrified Clay Pipe            | 8  | VALLEY PARK AVE          | 121 | 0 | 0 | 0 | 4131 | 7   | 4 | 4131 | 7   | 4 |
| 277.7 | Downstream | 0751        | 0722  | 751   | 722   | Concrete Pipe (non-reinforced) | 8  | 16th ST                  | 290 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 99.3  | Downstream | 0105        | 0104  | 105   | 104   | Concrete Pipe (non-reinforced) | 8  | 25th St                  | 270 | 0 | 0 | 0 | 4231 | 11  | 4 | 4231 | 11  | 4 |
| 214.4 | Upstream   | 0105        | 0104  | 105   | 104   | Concrete Pipe (non-reinforced) | 8  | 25th St                  | 270 | 0 | 0 | 0 | 4332 | 18  | 4 | 4332 | 18  | 4 |
| 150.3 | Downstream | 1153        | 1152  | 1153  | 1152  | Vitrified Clay Pipe            | 8  | 25th St                  | 109 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 125.4 | Downstream | 1039        | 1038  | 1039  | 1038  | Concrete Pipe (non-reinforced) | 8  | 24th ST                  | 138 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 181.4 | Downstream | 0081        | 0081A | 81    | 0081A | Concrete Pipe (non-reinforced) | 8  | LONGFELLOW AVE EASEMENT  | 394 | 0 | 0 | 0 | 4331 | 15  | 4 | 4331 | 15  | 4 |
| 163.6 | Downstream | 0570        | 0569  | 570   | 569   | Vitrified Clay Pipe            | 8  | HERMOSA VIEW DR          | 161 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 116.8 | Upstream   | 0569A       | 0569  | C/O   | 569   | Vitrified Clay Pipe            | 8  | HERMOSA VIEW DR EASEMENT | 132 | 0 | 0 | 0 | 5144 | 30  | 4 | 5144 | 30  | 4 |
| 306.6 | Downstream | 1155        | 1156  | 1155  | 1156  | Vitrified Clay Pipe            | 8  | HERMOSA AVE              | 275 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 61.2  | Downstream | 1056        | 1055  | 1056  | 1055  | Concrete Pipe (non-reinforced) | 8  | 21st St                  | 48  | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 4.6   | Downstream | 0703A       | 0703  | 0703A | 703   | Vitrified Clay Pipe            | 6  | BARD ST                  | 216 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 174.9 | Downstream | 1068A       | 1068  | 1068A | 1068  | Vitrified Clay Pipe            | 8  | PALM DR                  | 128 | 0 | 0 | 0 | 4432 | 22  | 4 | 4432 | 22  | 4 |
| 240   | Downstream | 0289        | 0288  | 289   | 288   | Vitrified Clay Pipe            | 8  | PACIFIC COAST HWY        | 248 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 11.1  | Downstream | 0151        | C0150 | 151   | C0150 | Vitrified Clay Pipe            | 8  | MONTEREY BLVD            | 15  | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 334.2 | Downstream | 0806        | 0805  | 806   | 805   | Concrete Pipe (non-reinforced) | 8  | PIER AVE                 | 339 | 0 | 0 | 0 | 4131 | 7   | 4 | 4131 | 7   | 4 |
| 127.7 | Downstream | 0805        | 0606  | 805   | 606   | Vitrified Clay Pipe            | 8  | PIER AVE                 | 170 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 121.8 | Upstream   | 0581        | 0580  | 581   | 580   | Vitrified Clay Pipe            | 8  | PORTER LN EASEMENT       | 139 | 0 | 0 | 0 | 4400 | 16  | 4 | 4400 | 16  | 4 |
| 210.6 | Upstream   | 0578        | 0577  | 578   | 577   | Vitrified Clay Pipe            | 8  | PORTER LN EASEMENT       | 139 | 0 | 0 | 0 | 4331 | 15  | 4 | 4331 | 15  | 4 |
| 61.2  | Downstream | 0575        | 0613  | 575   | 513   | Concrete Pipe (non-reinforced) | 8  | VALLEY PARK EASEMENT     | 274 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 284.8 | Downstream | 0575        | 0513  | 575   | 513   | Concrete Pipe (non-reinforced) | 8  | VALLEY PARK EASEMENT     | 274 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 330.9 | Downstream | 0176        | 0172  | 176   | 172   | Concrete Pipe (non-reinforced) | 8  | HERONDO ST               | 306 | 0 | 0 | 0 | 4231 | 11  | 4 | 4231 | 11  | 4 |
| 5     | Upstream   | 0703        | 0609  | 703   | 609   | Vitrified Clay Pipe            | 6  | VALLEY DR EASEMENT       | 171 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 23    | Downstream | 1127        | 1004  | 1127  | 1004  | Vitrified Clay Pipe            | 8  | 2nd St                   | 54  | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 318.1 | Downstream | 0605        | 0604  | 605   | 604   | Vitrified Clay Pipe            | 15 | VALLEY DR                | 328 | 0 | 0 | 0 | 4N00 | 260 | 4 | 4N00 | 260 | 4 |
| 163.7 | Downstream | 0602        | 0502  | 602   | 502   | Polyethylene                   | 12 | VALLEY PARK AVE EASEMENT | 160 | 0 | 0 | 0 | 4D00 | 100 | 4 | 4D00 | 100 | 4 |
| 83    | Upstream   | 1126        | 1125  | 1126  | 1125  | Vitrified Clay Pipe            | 6  | PALM DR                  | 437 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 232.3 | Downstream | 1124        | 1120  | 1124  | 1120  | Vitrified Clay Pipe            | 8  | MANHATTAN AVE            | 235 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 3     | Upstream   | 1066        | 1020  | 1066  | 1020  | Vitrified Clay Pipe            | 6  | 19th St                  | 303 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 432.1 | Upstream   | 1063        | 1063B | 1063  | 1063B | Concrete Pipe (non-reinforced) | 8  | PALM DR                  | 200 | 0 | 0 | 0 | 4131 | 7   | 4 | 4131 | 7   | 4 |
| 12.4  | Upstream   | 0055        | 0054  | 55    | 54    | Concrete Pipe (non-reinforced) | 8  | 28th Ct                  | 0   | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 15.7  | Upstream   | 0055        | 0054  | 55    | 54    | Concrete Pipe (non-reinforced) | 8  | 28th Ct                  | 0   | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 212.5 | Upstream   | 0055        | 0054  | 55    | 54    | Concrete Pipe (non-reinforced) | 8  | 28th Ct                  | 0   | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 15.2  | Downstream | 1108        | 1007  | 1108  | 1007  | Vitrified Clay Pipe            | 8  | HERMOSA AVE              | 45  | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 3     | Downstream | 1053        | 1036  | 1053  | 1036  | Vitrified Clay Pipe            | 6  | PALM DR                  | 353 | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 23    | Downstream | 1132H       | TRNK  | 1132H | TRNK  | Vitrified Clay Pipe            | 10 | HERONDO ST               | 79  | 0 | 0 | 0 | 4100 | 4   | 4 | 4100 | 4   | 4 |
| 45.3  | Upstream   | 204A-0203   | 204A  | 203   | 203   | Concrete Pipe (non-reinforced) | 8  | 1ST ST                   | 45  | 0 | 0 | 0 | 5100 | 5   | 5 | 5100 | 5   | 5 |
| 127.9 | Downstream | 0234-0233   | 234   | 233   | 233   | Vitrified Clay Pipe            | 8  | 2ND ST                   | 139 | 0 | 0 | 0 | 5100 | 5   | 5 | 5100 | 5   | 5 |
| 195   | Upstream   | 1096A-1096  | 1096A | 1096  | 1096  | Vitrified Clay Pipe            | 6  | 10Th Ct                  | 291 | 0 | 0 | 0 | 5100 | 5   | 5 | 5100 | 5   | 5 |
| 53.2  | Downstream | 0503        | 1166  | 503   | 1166  | Vitrified Clay Pipe            | 15 | POWER ST EASEMENT        | 170 | 0 | 0 | 0 | 5100 | 5   | 5 | 5100 | 5   | 5 |
| 131.5 | Upstream   | 0760        | 0759  | Cap   | 759   | Concrete Pipe (non-reinforced) | 8  | PACIFIC COAST HWY        | 156 | 0 | 0 | 0 | 5100 | 5   | 5 | 5100 | 5   | 5 |

221606.97



## Appendix B: Flow Monitoring Data







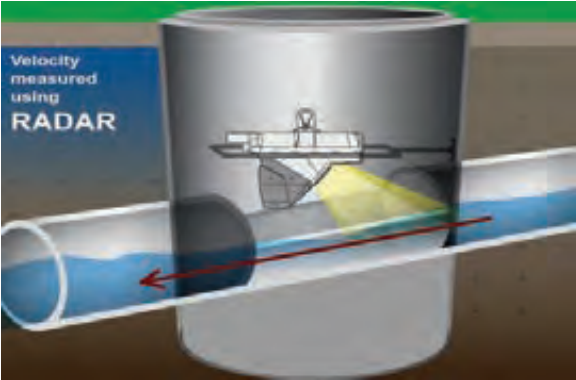
# Site Report

02-15-2017

**Confidential Proprietary Information**

|                                                 |                                                                                             |                         |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------|
| David Evans                                     |                                                                                             | ~3417 The Strand        |
| 2017.01-02 Site 1 The Strand MH                 |                                                                                             | Manhole No. 0011        |
| Access:<br>Manhole on boardwalk west of address | System Type:<br>Sanitary <input checked="" type="checkbox"/> Storm <input type="checkbox"/> | Install Date: 1/19/2017 |

| <div style="text-align: center; margin-bottom: 10px;">Map</div>  <div style="text-align: center; margin-bottom: 10px;">Technology</div>  <div style="text-align: center; margin-bottom: 10px;">Sewer Plan</div>  | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="4">Flow Meter</th></tr> <tr><td colspan="4">Meter Depth: 70"</td></tr> <tr><td colspan="4">Map Coordinates: 33.876575, -118.408178</td></tr> <tr><td colspan="4">Slow open channel hydraulics</td></tr> <tr> <td>Avg Velocity</td><td>Avg Measured Level</td><td colspan="2">Multiplier</td></tr> <tr> <td>0.66 fps</td><td>2.25"</td><td colspan="2" rowspan="2">1</td></tr> <tr><th colspan="4">Gas</th></tr> <tr> <td>O2</td><td>H2S</td><td>CO</td><td>LEL</td></tr> <tr> <td>20.9</td><td>0</td><td>0</td><td>0</td></tr> <tr><th colspan="4">Notes</th></tr> <tr><td colspan="4">Deposition of normal system solids noted within entire length of trough.</td></tr> <tr><th colspan="4">Traffic Safety</th></tr> <tr><td colspan="4">No traffic near MH during installation or removal.</td></tr> <tr><th colspan="4">Land Use</th></tr> <tr> <td>Residential</td><td>Commercial</td><td>Industrial</td><td>Trunk</td></tr> <tr> <td>X</td><td></td><td></td><td></td></tr> <tr><td colspan="2">Manhole Depth</td><td colspan="2">84"</td></tr> <tr><td colspan="2">Monitored Pipe Size</td><td colspan="2">8"</td></tr> <tr><td colspan="2">Inner Pipe Size (In/Out)</td><td colspan="2">8"/8"</td></tr> <tr><td colspan="2">Pipe Shape</td><td colspan="2">Round</td></tr> <tr><td colspan="2">Pipe Condition</td><td colspan="2">Good</td></tr> <tr><td colspan="2">Manhole Material</td><td colspan="2">Brick</td></tr> <tr><td colspan="2">Silt</td><td colspan="2">0</td></tr> <tr><td colspan="2">Velocity Profile Data</td><td colspan="2">*</td></tr> <tr><td colspan="2">Velocity Profile Taken</td><td colspan="2">0.4 2-D</td></tr> <tr><td colspan="2">Sensor Offset</td><td colspan="2">14.44"</td></tr> <tr><td colspan="2">Sensor Dist. to Crown</td><td colspan="2">6.44"</td></tr> <tr><td colspan="2">Sensor Direction</td><td colspan="2">Upstream</td></tr> <tr><td colspan="2">Flow Heading</td><td colspan="2">North</td></tr> </table> | Flow Meter |       |  |  | Meter Depth: 70" |  |  |  | Map Coordinates: 33.876575, -118.408178 |  |  |  | Slow open channel hydraulics |  |  |  | Avg Velocity | Avg Measured Level | Multiplier |  | 0.66 fps | 2.25" | 1 |  | Gas |  |  |  | O2 | H2S | CO | LEL | 20.9 | 0 | 0 | 0 | Notes |  |  |  | Deposition of normal system solids noted within entire length of trough. |  |  |  | Traffic Safety |  |  |  | No traffic near MH during installation or removal. |  |  |  | Land Use |  |  |  | Residential | Commercial | Industrial | Trunk | X |  |  |  | Manhole Depth |  | 84" |  | Monitored Pipe Size |  | 8" |  | Inner Pipe Size (In/Out) |  | 8"/8" |  | Pipe Shape |  | Round |  | Pipe Condition |  | Good |  | Manhole Material |  | Brick |  | Silt |  | 0 |  | Velocity Profile Data |  | * |  | Velocity Profile Taken |  | 0.4 2-D |  | Sensor Offset |  | 14.44" |  | Sensor Dist. to Crown |  | 6.44" |  | Sensor Direction |  | Upstream |  | Flow Heading |  | North |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|--|--|------------------|--|--|--|-----------------------------------------|--|--|--|------------------------------|--|--|--|--------------|--------------------|------------|--|----------|-------|---|--|-----|--|--|--|----|-----|----|-----|------|---|---|---|-------|--|--|--|--------------------------------------------------------------------------|--|--|--|----------------|--|--|--|----------------------------------------------------|--|--|--|----------|--|--|--|-------------|------------|------------|-------|---|--|--|--|---------------|--|-----|--|---------------------|--|----|--|--------------------------|--|-------|--|------------|--|-------|--|----------------|--|------|--|------------------|--|-------|--|------|--|---|--|-----------------------|--|---|--|------------------------|--|---------|--|---------------|--|--------|--|-----------------------|--|-------|--|------------------|--|----------|--|--------------|--|-------|--|
| Flow Meter                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Meter Depth: 70"                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Map Coordinates: 33.876575, -118.408178                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Slow open channel hydraulics                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Avg Velocity                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Avg Measured Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Multiplier |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| 0.66 fps                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.25"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1          |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Gas                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| O2                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H2S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CO         | LEL   |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| 20.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0          | 0     |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Deposition of normal system solids noted within entire length of trough.                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Traffic Safety                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| No traffic near MH during installation or removal.                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Land Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Residential                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Commercial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Industrial | Trunk |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Manhole Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 84"        |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Monitored Pipe Size                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8"         |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Inner Pipe Size (In/Out)                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8"/8"      |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Pipe Shape                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Round      |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Pipe Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Good       |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Manhole Material                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Brick      |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Silt                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0          |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Velocity Profile Data                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | *          |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Velocity Profile Taken                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.4 2-D    |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Sensor Offset                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 14.44"     |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Sensor Dist. to Crown                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.44"      |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Sensor Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Upstream   |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Flow Heading                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | North      |       |  |  |                  |  |  |  |                                         |  |  |  |                              |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                          |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |    |  |                          |  |       |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |





## Meter Site Document

David Evans

2017.01-02 Site 1 The Strand MH

~3417 The Strand

Site



Manhole Hydraulics



Installation Process



Installed



MH 0011





Utility Systems Science and Software

Report Date: 02/20/2017  
Customer: David Evans  
Group: Hermosa Beach  
SiteID: 2634

### Statistics for 2017.01-02 Site 1 The Strand MH: 01/20/2017 thru 02/16/2017

|              | Flow (GPM)   |               |             | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |             |             |                |             |
|--------------|--------------|---------------|-------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|-------------|-------------|----------------|-------------|
| Date         | Avg          | Max           | Min         | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max         | Min         | Total Gal      | Rain        |
| 1/20/17      | 31.34        | 162.08        | 7.64        | 0.05        | 0.23        | 0.01        | 1.02           | 5.52        | 0.25        | 1.98           | 2.87        | 1.65        | 45,125         | 1.29        |
| 1/21/17      | 46.51        | 169.79        | 6.81        | 0.07        | 0.24        | 0.01        | 1.61           | 5.19        | 0.22        | 1.99           | 2.61        | 1.40        | 66,977         |             |
| 1/22/17      | 30.74        | 211.60        | 4.65        | 0.04        | 0.30        | 0.01        | 0.69           | 2.63        | 0.25        | 2.20           | 5.19        | 1.41        | 44,260         | 3.72        |
| <b>Week:</b> | <b>36.19</b> | <b>211.60</b> | <b>4.65</b> | <b>0.05</b> | <b>0.30</b> | <b>0.01</b> | <b>1.10</b>    | <b>5.52</b> | <b>0.22</b> | <b>2.06</b>    | <b>5.19</b> | <b>1.40</b> | <b>156,362</b> | <b>5.01</b> |
| 1/23/17      | 39.03        | 215.42        | 4.72        | 0.06        | 0.31        | 0.01        | 1.36           | 6.78        | 0.25        | 1.88           | 2.32        | 1.43        | 56,200         | 0.13        |
| 1/24/17      | 40.72        | 265.21        | 2.43        | 0.06        | 0.38        | 0.00        | 1.27           | 6.11        | 0.10        | 1.86           | 2.57        | 1.58        | 58,630         |             |
| 1/25/17      | 19.22        | 104.10        | 1.87        | 0.03        | 0.15        | 0.00        | 0.86           | 5.06        | 0.10        | 1.79           | 2.43        | 1.40        | 27,672         |             |
| 1/26/17      | 18.83        | 166.53        | 1.74        | 0.03        | 0.24        | 0.00        | 0.68           | 4.74        | 0.10        | 1.73           | 2.39        | 1.36        | 27,119         |             |
| 1/27/17      | 76.28        | 242.92        | 1.81        | 0.11        | 0.35        | 0.00        | 2.51           | 7.36        | 0.10        | 1.90           | 2.26        | 1.37        | 109,850        |             |
| 1/28/17      | 46.50        | 204.86        | 1.74        | 0.07        | 0.30        | 0.00        | 1.45           | 6.20        | 0.10        | 1.80           | 2.34        | 1.33        | 66,962         |             |
| 1/29/17      | 67.40        | 275.55        | 1.87        | 0.10        | 0.40        | 0.00        | 2.14           | 9.24        | 0.10        | 1.95           | 2.43        | 1.41        | 97,057         |             |
| <b>Week:</b> | <b>44.00</b> | <b>275.55</b> | <b>1.74</b> | <b>0.06</b> | <b>0.40</b> | <b>0.00</b> | <b>1.47</b>    | <b>9.24</b> | <b>0.10</b> | <b>1.84</b>    | <b>2.57</b> | <b>1.33</b> | <b>443,489</b> | <b>0.13</b> |
| 1/30/17      | 48.29        | 228.61        | 1.87        | 0.07        | 0.33        | 0.00        | 1.83           | 6.63        | 0.10        | 1.87           | 2.64        | 1.41        | 69,545         |             |
| 1/31/17      | 64.71        | 227.01        | 1.87        | 0.09        | 0.33        | 0.00        | 2.47           | 7.98        | 0.10        | 1.76           | 2.19        | 1.40        | 93,181         |             |
| 2/1/17       | 30.48        | 173.61        | 1.94        | 0.04        | 0.25        | 0.00        | 1.01           | 4.99        | 0.10        | 1.88           | 2.46        | 1.47        | 43,896         |             |
| 2/2/17       | 21.76        | 189.10        | 1.87        | 0.03        | 0.27        | 0.00        | 0.74           | 5.89        | 0.10        | 1.78           | 2.07        | 1.43        | 31,335         |             |
| 2/3/17       | 49.67        | 203.33        | 2.85        | 0.07        | 0.29        | 0.00        | 1.80           | 6.99        | 0.10        | 1.96           | 2.34        | 1.58        | 71,520         | 0.39        |

|                | Flow (GPM)   |               |             | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |             |             |                  |             |
|----------------|--------------|---------------|-------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|-------------|-------------|------------------|-------------|
| Date           | Avg          | Max           | Min         | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max         | Min         | Total Gal        | Rain        |
| 2/4/17         | 56.31        | 173.75        | 1.87        | 0.08        | 0.25        | 0.00        | 2.09           | 5.98        | 0.10        | 1.76           | 2.14        | 1.43        | 81,088           |             |
| 2/5/17         | 28.81        | 287.50        | 1.87        | 0.04        | 0.41        | 0.00        | 1.09           | 7.90        | 0.10        | 1.80           | 2.50        | 1.41        | 41,488           |             |
| <b>Week:</b>   | <b>42.86</b> | <b>287.50</b> | <b>1.87</b> | <b>0.06</b> | <b>0.41</b> | <b>0.00</b> | <b>1.58</b>    | <b>7.98</b> | <b>0.10</b> | <b>1.83</b>    | <b>2.64</b> | <b>1.40</b> | <b>432,053</b>   | <b>0.39</b> |
| 2/6/17         | 69.10        | 227.01        | 1.94        | 0.10        | 0.33        | 0.00        | 2.35           | 6.82        | 0.10        | 1.94           | 2.40        | 1.46        | 99,504           | 1.43        |
| 2/7/17         | 37.40        | 165.97        | 5.28        | 0.05        | 0.24        | 0.01        | 1.40           | 5.17        | 0.25        | 1.84           | 2.36        | 1.54        | 53,858           | 0.64        |
| 2/8/17         | 52.17        | 246.46        | 4.86        | 0.08        | 0.36        | 0.01        | 1.92           | 6.36        | 0.25        | 1.80           | 2.50        | 1.46        | 75,123           | 0.07        |
| 2/9/17         | 36.11        | 218.40        | 4.51        | 0.05        | 0.31        | 0.01        | 1.45           | 7.60        | 0.19        | 1.83           | 2.40        | 1.46        | 52,005           |             |
| 2/10/17        | 49.77        | 175.07        | 3.47        | 0.07        | 0.25        | 0.01        | 2.04           | 6.22        | 0.12        | 1.80           | 2.21        | 1.46        | 71,670           | 0.33        |
| 2/11/17        | 53.95        | 205.83        | 3.96        | 0.08        | 0.30        | 0.01        | 1.93           | 6.01        | 0.16        | 1.88           | 2.44        | 1.43        | 77,681           | 0.01        |
| 2/12/17        | 28.06        | 145.28        | 4.86        | 0.04        | 0.21        | 0.01        | 1.05           | 5.25        | 0.21        | 1.87           | 2.32        | 1.46        | 40,412           |             |
| <b>Week:</b>   | <b>46.65</b> | <b>246.46</b> | <b>1.94</b> | <b>0.07</b> | <b>0.36</b> | <b>0.00</b> | <b>1.74</b>    | <b>7.60</b> | <b>0.10</b> | <b>1.85</b>    | <b>2.50</b> | <b>1.43</b> | <b>470,253</b>   | <b>2.48</b> |
| 2/13/17        | 25.27        | 168.06        | 4.65        | 0.04        | 0.24        | 0.01        | 0.89           | 5.05        | 0.25        | 1.81           | 2.18        | 1.41        | 36,387           |             |
| 2/14/17        | 33.08        | 188.75        | 4.65        | 0.05        | 0.27        | 0.01        | 1.08           | 5.32        | 0.25        | 1.91           | 2.23        | 1.41        | 47,635           |             |
| 2/15/17        | 55.00        | 191.94        | 4.72        | 0.08        | 0.28        | 0.01        | 1.84           | 5.51        | 0.18        | 1.96           | 2.30        | 1.68        | 79,205           |             |
| 2/16/17        | 32.26        | 168.19        | 3.40        | 0.05        | 0.24        | 0.00        | 1.16           | 5.29        | 0.16        | 1.80           | 2.25        | 1.40        | 46,455           |             |
| <b>Week:</b>   | <b>36.40</b> | <b>191.94</b> | <b>3.40</b> | <b>0.05</b> | <b>0.28</b> | <b>0.00</b> | <b>1.24</b>    | <b>5.51</b> | <b>0.16</b> | <b>1.87</b>    | <b>2.30</b> | <b>1.40</b> | <b>209,683</b>   |             |
| <b>Totals:</b> | <b>41.22</b> | <b>287.50</b> | <b>1.74</b> | <b>0.06</b> | <b>0.41</b> | <b>0.00</b> | <b>1.43</b>    | <b>9.24</b> | <b>0.10</b> | <b>1.89</b>    | <b>5.19</b> | <b>1.33</b> | <b>1,711,839</b> | <b>8.01</b> |



Data for 2017.01-02 Site 1 The Strand MH:  
1/19/2017 thru 2/17/2017

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 12:29 | 2.25       | 25.69      | 0.71           |
| 2017/01/19 12:44 | 1.80       | 14.79      | 0.56           |
| 2017/01/19 12:59 | 2.11       | 13.68      | 0.42           |
| 2017/01/19 13:14 | 1.87       | 10.21      | 0.37           |
| 2017/01/19 13:29 | 1.96       | 12.29      | 0.42           |
| 2017/01/19 13:44 | 1.87       | 10.76      | 0.38           |
| 2017/01/19 13:59 | 1.87       | 10.21      | 0.37           |
| 2017/01/19 14:14 | 1.87       | 10.21      | 0.37           |
| 2017/01/19 14:29 | 1.96       | 11.39      | 0.38           |
| 2017/01/19 14:44 | 2.21       | 24.65      | 0.70           |
| 2017/01/19 14:59 | 2.21       | 24.65      | 0.70           |
| 2017/01/19 15:14 | 2.21       | 24.65      | 0.70           |
| 2017/01/19 15:29 | 1.91       | 20.49      | 0.71           |
| 2017/01/19 15:44 | 1.91       | 20.49      | 0.71           |
| 2017/01/19 15:59 | 1.91       | 19.10      | 0.66           |
| 2017/01/19 16:14 | 1.91       | 20.97      | 0.73           |
| 2017/01/19 16:29 | 1.91       | 20.97      | 0.73           |
| 2017/01/19 16:44 | 1.97       | 19.37      | 0.65           |
| 2017/01/19 16:59 | 1.97       | 19.37      | 0.65           |
| 2017/01/19 17:14 | 1.97       | 19.37      | 0.65           |
| 2017/01/19 17:29 | 1.86       | 16.67      | 0.60           |
| 2017/01/19 17:44 | 1.86       | 16.67      | 0.60           |
| 2017/01/19 17:59 | 1.79       | 15.28      | 0.58           |
| 2017/01/19 18:14 | 1.79       | 15.28      | 0.58           |
| 2017/01/19 18:29 | 1.86       | 16.67      | 0.60           |
| 2017/01/19 18:44 | 1.86       | 16.67      | 0.60           |
| 2017/01/19 18:59 | 1.86       | 16.67      | 0.60           |
| 2017/01/19 19:14 | 1.86       | 16.67      | 0.60           |
| 2017/01/19 19:29 | 1.84       | 21.25      | 0.78           |
| 2017/01/19 19:44 | 1.84       | 21.25      | 0.78           |
| 2017/01/19 19:59 | 1.84       | 21.25      | 0.78           |
| 2017/01/19 20:14 | 1.93       | 18.26      | 0.63           |
| 2017/01/19 20:29 | 1.93       | 14.65      | 0.50           |
| 2017/01/19 20:44 | 1.93       | 13.12      | 0.45           |
| 2017/01/19 20:59 | 1.57       | 10.90      | 0.51           |
| 2017/01/19 21:14 | 1.57       | 10.90      | 0.51           |
| 2017/01/19 21:29 | 1.57       | 10.90      | 0.51           |
| 2017/01/19 21:44 | 1.68       | 17.78      | 0.74           |
| 2017/01/19 21:59 | 1.68       | 17.85      | 0.75           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 22:14 | 2.23       | 36.25      | 1.01           |
| 2017/01/19 22:29 | 2.25       | 36.74      | 1.02           |
| 2017/01/19 22:44 | 2.25       | 36.74      | 1.02           |
| 2017/01/19 22:59 | 2.23       | 36.25      | 1.01           |
| 2017/01/19 23:14 | 2.14       | 32.50      | 0.97           |
| 2017/01/19 23:29 | 2.14       | 32.50      | 0.97           |
| 2017/01/19 23:44 | 2.05       | 29.58      | 0.93           |
| 2017/01/19 23:59 | 2.05       | 21.87      | 0.69           |
| 2017/01/20 00:14 | 2.07       | 14.17      | 0.44           |
| 2017/01/20 00:29 | 2.07       | 14.17      | 0.44           |
| 2017/01/20 00:44 | 2.00       | 7.64       | 0.25           |
| 2017/01/20 00:59 | 2.07       | 8.06       | 0.25           |
| 2017/01/20 01:14 | 2.07       | 8.06       | 0.25           |
| 2017/01/20 01:29 | 2.09       | 8.12       | 0.25           |
| 2017/01/20 01:44 | 2.09       | 8.12       | 0.25           |
| 2017/01/20 01:59 | 2.12       | 8.33       | 0.25           |
| 2017/01/20 02:14 | 2.12       | 8.33       | 0.25           |
| 2017/01/20 02:29 | 2.12       | 8.33       | 0.25           |
| 2017/01/20 02:44 | 2.03       | 11.25      | 0.36           |
| 2017/01/20 02:59 | 2.01       | 15.76      | 0.51           |
| 2017/01/20 03:14 | 1.65       | 15.49      | 0.66           |
| 2017/01/20 03:29 | 1.65       | 16.39      | 0.70           |
| 2017/01/20 03:44 | 1.65       | 16.39      | 0.70           |
| 2017/01/20 03:59 | 1.72       | 19.93      | 0.81           |
| 2017/01/20 04:14 | 1.72       | 17.36      | 0.70           |
| 2017/01/20 04:29 | 1.96       | 21.81      | 0.74           |
| 2017/01/20 04:44 | 1.98       | 22.29      | 0.74           |
| 2017/01/20 04:59 | 2.03       | 22.92      | 0.74           |
| 2017/01/20 05:14 | 2.05       | 22.71      | 0.71           |
| 2017/01/20 05:29 | 2.05       | 22.43      | 0.71           |
| 2017/01/20 05:44 | 2.03       | 22.01      | 0.71           |
| 2017/01/20 05:59 | 2.00       | 21.81      | 0.71           |
| 2017/01/20 06:14 | 1.79       | 19.93      | 0.76           |
| 2017/01/20 06:29 | 1.79       | 21.39      | 0.82           |
| 2017/01/20 06:44 | 1.79       | 22.22      | 0.85           |
| 2017/01/20 06:59 | 1.93       | 24.86      | 0.85           |
| 2017/01/20 07:14 | 2.05       | 27.15      | 0.85           |
| 2017/01/20 07:29 | 2.05       | 30.42      | 0.96           |
| 2017/01/20 07:44 | 1.98       | 36.11      | 1.19           |
| 2017/01/20 07:59 | 1.98       | 155.28     | 5.13           |
| 2017/01/20 08:14 | 1.98       | 155.28     | 5.13           |
| 2017/01/20 08:29 | 1.93       | 149.17     | 5.13           |
| 2017/01/20 08:44 | 1.93       | 160.42     | 5.52           |
| 2017/01/20 08:59 | 1.91       | 27.78      | 0.97           |
| 2017/01/20 09:14 | 1.91       | 26.94      | 0.94           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 09:29 | 1.91       | 21.74      | 0.76           |
| 2017/01/20 09:44 | 2.05       | 26.60      | 0.84           |
| 2017/01/20 09:59 | 2.08       | 27.08      | 0.84           |
| 2017/01/20 10:14 | 2.16       | 30.56      | 0.89           |
| 2017/01/20 10:29 | 2.18       | 29.44      | 0.85           |
| 2017/01/20 10:44 | 2.18       | 30.83      | 0.89           |
| 2017/01/20 10:59 | 2.18       | 30.83      | 0.89           |
| 2017/01/20 11:14 | 2.18       | 30.97      | 0.90           |
| 2017/01/20 11:29 | 2.50       | 37.50      | 0.90           |
| 2017/01/20 11:44 | 2.87       | 49.31      | 0.98           |
| 2017/01/20 11:59 | 2.87       | 50.69      | 1.00           |
| 2017/01/20 12:14 | 2.87       | 50.69      | 1.00           |
| 2017/01/20 12:29 | 2.78       | 52.15      | 1.08           |
| 2017/01/20 12:44 | 2.73       | 51.94      | 1.10           |
| 2017/01/20 12:59 | 2.50       | 162.08     | 3.88           |
| 2017/01/20 13:14 | 2.01       | 119.79     | 3.88           |
| 2017/01/20 13:29 | 1.89       | 109.44     | 3.88           |
| 2017/01/20 13:44 | 1.87       | 107.57     | 3.85           |
| 2017/01/20 13:59 | 1.86       | 19.65      | 0.71           |
| 2017/01/20 14:14 | 1.76       | 18.19      | 0.71           |
| 2017/01/20 14:29 | 1.73       | 17.78      | 0.71           |
| 2017/01/20 14:44 | 1.73       | 18.40      | 0.74           |
| 2017/01/20 14:59 | 1.76       | 18.82      | 0.74           |
| 2017/01/20 15:14 | 1.76       | 18.82      | 0.74           |
| 2017/01/20 15:29 | 1.82       | 16.32      | 0.61           |
| 2017/01/20 15:44 | 1.82       | 16.32      | 0.61           |
| 2017/01/20 15:59 | 1.82       | 14.86      | 0.56           |
| 2017/01/20 16:14 | 1.79       | 14.51      | 0.56           |
| 2017/01/20 16:29 | 1.79       | 16.18      | 0.62           |
| 2017/01/20 16:44 | 1.79       | 16.18      | 0.62           |
| 2017/01/20 16:59 | 1.97       | 18.54      | 0.62           |
| 2017/01/20 17:14 | 1.97       | 18.54      | 0.62           |
| 2017/01/20 17:29 | 1.97       | 17.22      | 0.58           |
| 2017/01/20 17:44 | 1.86       | 15.90      | 0.58           |
| 2017/01/20 17:59 | 1.86       | 15.90      | 0.58           |
| 2017/01/20 18:14 | 1.86       | 15.90      | 0.58           |
| 2017/01/20 18:29 | 1.86       | 18.26      | 0.66           |
| 2017/01/20 18:44 | 1.86       | 18.26      | 0.66           |
| 2017/01/20 18:59 | 1.93       | 19.58      | 0.67           |
| 2017/01/20 19:14 | 1.96       | 20.00      | 0.67           |
| 2017/01/20 19:29 | 1.96       | 20.35      | 0.69           |
| 2017/01/20 19:44 | 1.98       | 20.76      | 0.69           |
| 2017/01/20 19:59 | 2.09       | 24.86      | 0.76           |
| 2017/01/20 20:14 | 2.09       | 25.07      | 0.77           |
| 2017/01/20 20:29 | 2.12       | 25.49      | 0.77           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 20:44 | 2.09       | 25.07      | 0.77           |
| 2017/01/20 20:59 | 2.09       | 25.07      | 0.77           |
| 2017/01/20 21:14 | 2.12       | 24.37      | 0.73           |
| 2017/01/20 21:29 | 1.80       | 18.26      | 0.69           |
| 2017/01/20 21:44 | 1.79       | 18.06      | 0.69           |
| 2017/01/20 21:59 | 1.80       | 18.26      | 0.69           |
| 2017/01/20 22:14 | 1.80       | 17.99      | 0.68           |
| 2017/01/20 22:29 | 1.73       | 17.01      | 0.68           |
| 2017/01/20 22:44 | 1.72       | 16.81      | 0.68           |
| 2017/01/20 22:59 | 1.66       | 16.04      | 0.68           |
| 2017/01/20 23:14 | 1.66       | 16.32      | 0.69           |
| 2017/01/20 23:29 | 1.66       | 16.60      | 0.70           |
| 2017/01/20 23:44 | 1.75       | 19.10      | 0.76           |
| 2017/01/20 23:59 | 1.84       | 20.62      | 0.76           |
| 2017/01/21 00:14 | 2.05       | 24.44      | 0.77           |
| 2017/01/21 00:29 | 2.05       | 24.17      | 0.76           |
| 2017/01/21 00:44 | 2.05       | 24.31      | 0.76           |
| 2017/01/21 00:59 | 1.93       | 22.15      | 0.76           |
| 2017/01/21 01:14 | 1.86       | 21.11      | 0.76           |
| 2017/01/21 01:29 | 1.86       | 21.04      | 0.76           |
| 2017/01/21 01:44 | 1.90       | 20.97      | 0.74           |
| 2017/01/21 01:59 | 1.90       | 20.83      | 0.73           |
| 2017/01/21 02:14 | 1.93       | 21.39      | 0.74           |
| 2017/01/21 02:29 | 1.93       | 21.39      | 0.74           |
| 2017/01/21 02:44 | 1.93       | 21.60      | 0.74           |
| 2017/01/21 02:59 | 2.03       | 24.37      | 0.78           |
| 2017/01/21 03:14 | 2.05       | 25.21      | 0.79           |
| 2017/01/21 03:29 | 2.09       | 26.46      | 0.81           |
| 2017/01/21 03:44 | 2.09       | 26.46      | 0.81           |
| 2017/01/21 03:59 | 2.05       | 25.21      | 0.79           |
| 2017/01/21 04:14 | 1.84       | 19.65      | 0.72           |
| 2017/01/21 04:29 | 1.46       | 12.78      | 0.65           |
| 2017/01/21 04:44 | 1.43       | 12.29      | 0.65           |
| 2017/01/21 04:59 | 1.43       | 12.29      | 0.65           |
| 2017/01/21 05:14 | 1.43       | 12.29      | 0.65           |
| 2017/01/21 05:29 | 1.41       | 12.08      | 0.65           |
| 2017/01/21 05:44 | 1.41       | 12.08      | 0.65           |
| 2017/01/21 05:59 | 1.41       | 12.08      | 0.65           |
| 2017/01/21 06:14 | 1.41       | 12.08      | 0.65           |
| 2017/01/21 06:29 | 1.40       | 11.81      | 0.64           |
| 2017/01/21 06:44 | 1.40       | 11.81      | 0.64           |
| 2017/01/21 06:59 | 1.40       | 6.81       | 0.37           |
| 2017/01/21 07:14 | 1.43       | 12.50      | 0.66           |
| 2017/01/21 07:29 | 2.12       | 25.07      | 0.75           |
| 2017/01/21 07:44 | 2.14       | 25.56      | 0.76           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 07:59 | 2.43       | 23.19      | 0.58           |
| 2017/01/21 08:14 | 2.43       | 26.46      | 0.66           |
| 2017/01/21 08:29 | 2.43       | 23.19      | 0.58           |
| 2017/01/21 08:44 | 2.44       | 20.83      | 0.51           |
| 2017/01/21 08:59 | 2.36       | 8.54       | 0.22           |
| 2017/01/21 09:14 | 2.32       | 8.33       | 0.22           |
| 2017/01/21 09:29 | 2.01       | 6.81       | 0.22           |
| 2017/01/21 09:44 | 2.01       | 19.17      | 0.62           |
| 2017/01/21 09:59 | 2.01       | 19.79      | 0.64           |
| 2017/01/21 10:14 | 2.15       | 21.74      | 0.64           |
| 2017/01/21 10:29 | 2.25       | 22.43      | 0.62           |
| 2017/01/21 10:44 | 2.34       | 24.51      | 0.64           |
| 2017/01/21 10:59 | 2.25       | 20.35      | 0.56           |
| 2017/01/21 11:14 | 2.34       | 21.53      | 0.56           |
| 2017/01/21 11:29 | 2.37       | 25.69      | 0.66           |
| 2017/01/21 11:44 | 2.55       | 29.31      | 0.68           |
| 2017/01/21 11:59 | 2.55       | 30.62      | 0.71           |
| 2017/01/21 12:14 | 2.55       | 32.29      | 0.75           |
| 2017/01/21 12:29 | 2.61       | 33.19      | 0.75           |
| 2017/01/21 12:44 | 2.61       | 33.19      | 0.75           |
| 2017/01/21 12:59 | 2.61       | 31.53      | 0.71           |
| 2017/01/21 13:14 | 2.50       | 29.10      | 0.70           |
| 2017/01/21 13:29 | 2.32       | 24.93      | 0.66           |
| 2017/01/21 13:44 | 2.30       | 24.58      | 0.66           |
| 2017/01/21 13:59 | 2.29       | 23.75      | 0.64           |
| 2017/01/21 14:14 | 2.29       | 24.37      | 0.66           |
| 2017/01/21 14:29 | 2.29       | 24.37      | 0.66           |
| 2017/01/21 14:44 | 2.23       | 22.92      | 0.64           |
| 2017/01/21 14:59 | 2.18       | 21.81      | 0.63           |
| 2017/01/21 15:14 | 2.23       | 23.12      | 0.65           |
| 2017/01/21 15:29 | 2.23       | 23.12      | 0.65           |
| 2017/01/21 15:44 | 2.18       | 21.81      | 0.63           |
| 2017/01/21 15:59 | 2.18       | 21.81      | 0.63           |
| 2017/01/21 16:14 | 2.04       | 18.61      | 0.59           |
| 2017/01/21 16:29 | 1.98       | 14.93      | 0.49           |
| 2017/01/21 16:44 | 1.97       | 14.72      | 0.49           |
| 2017/01/21 16:59 | 1.94       | 14.10      | 0.48           |
| 2017/01/21 17:14 | 1.97       | 14.72      | 0.49           |
| 2017/01/21 17:29 | 1.97       | 14.72      | 0.49           |
| 2017/01/21 17:44 | 2.08       | 75.42      | 2.33           |
| 2017/01/21 17:59 | 2.08       | 167.99     | 5.19           |
| 2017/01/21 18:14 | 2.09       | 169.79     | 5.19           |
| 2017/01/21 18:29 | 2.08       | 167.99     | 5.19           |
| 2017/01/21 18:44 | 2.03       | 155.14     | 4.98           |
| 2017/01/21 18:59 | 2.00       | 150.07     | 4.91           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 19:14 | 2.03       | 155.14     | 4.98           |
| 2017/01/21 19:29 | 2.00       | 150.07     | 4.91           |
| 2017/01/21 19:44 | 2.00       | 150.07     | 4.91           |
| 2017/01/21 19:59 | 2.00       | 150.07     | 4.91           |
| 2017/01/21 20:14 | 1.93       | 150.00     | 5.16           |
| 2017/01/21 20:29 | 1.93       | 121.74     | 4.19           |
| 2017/01/21 20:44 | 1.93       | 117.01     | 4.02           |
| 2017/01/21 20:59 | 1.62       | 96.74      | 4.25           |
| 2017/01/21 21:14 | 1.62       | 96.74      | 4.25           |
| 2017/01/21 21:29 | 1.62       | 96.74      | 4.25           |
| 2017/01/21 21:44 | 1.62       | 96.74      | 4.25           |
| 2017/01/21 21:59 | 1.69       | 107.57     | 4.45           |
| 2017/01/21 22:14 | 1.78       | 120.90     | 4.67           |
| 2017/01/21 22:29 | 1.78       | 120.90     | 4.67           |
| 2017/01/21 22:44 | 1.78       | 120.90     | 4.67           |
| 2017/01/21 22:59 | 1.78       | 91.39      | 3.52           |
| 2017/01/21 23:14 | 1.58       | 65.49      | 2.99           |
| 2017/01/21 23:29 | 1.48       | 48.47      | 2.43           |
| 2017/01/21 23:44 | 1.48       | 48.47      | 2.43           |
| 2017/01/21 23:59 | 1.48       | 31.11      | 1.56           |
| 2017/01/22 00:14 | 2.14       | 28.26      | 0.84           |
| 2017/01/22 00:29 | 2.14       | 28.26      | 0.84           |
| 2017/01/22 00:44 | 2.14       | 18.54      | 0.55           |
| 2017/01/22 00:59 | 1.89       | 8.75       | 0.31           |
| 2017/01/22 01:14 | 1.78       | 6.46       | 0.25           |
| 2017/01/22 01:29 | 1.68       | 5.97       | 0.25           |
| 2017/01/22 01:44 | 1.68       | 5.97       | 0.25           |
| 2017/01/22 01:59 | 1.55       | 5.35       | 0.25           |
| 2017/01/22 02:14 | 1.47       | 4.93       | 0.25           |
| 2017/01/22 02:29 | 1.41       | 4.65       | 0.25           |
| 2017/01/22 02:44 | 1.41       | 4.65       | 0.25           |
| 2017/01/22 02:59 | 1.41       | 4.65       | 0.25           |
| 2017/01/22 03:14 | 1.47       | 4.93       | 0.25           |
| 2017/01/22 03:29 | 1.47       | 4.93       | 0.25           |
| 2017/01/22 03:44 | 1.47       | 8.47       | 0.43           |
| 2017/01/22 03:59 | 1.50       | 15.83      | 0.78           |
| 2017/01/22 04:14 | 1.43       | 11.39      | 0.60           |
| 2017/01/22 04:29 | 1.43       | 18.47      | 0.98           |
| 2017/01/22 04:44 | 1.80       | 22.78      | 0.86           |
| 2017/01/22 04:59 | 1.97       | 25.83      | 0.86           |
| 2017/01/22 05:14 | 2.21       | 34.24      | 0.98           |
| 2017/01/22 05:29 | 2.26       | 35.49      | 0.98           |
| 2017/01/22 05:44 | 2.41       | 34.37      | 0.86           |
| 2017/01/22 05:59 | 2.41       | 26.18      | 0.66           |
| 2017/01/22 06:14 | 2.41       | 25.83      | 0.65           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 06:29 | 2.04       | 15.69      | 0.50           |
| 2017/01/22 06:44 | 2.00       | 14.86      | 0.49           |
| 2017/01/22 06:59 | 2.00       | 14.86      | 0.49           |
| 2017/01/22 07:14 | 2.04       | 15.69      | 0.50           |
| 2017/01/22 07:29 | 2.00       | 16.74      | 0.55           |
| 2017/01/22 07:44 | 2.09       | 22.71      | 0.69           |
| 2017/01/22 07:59 | 2.11       | 22.92      | 0.69           |
| 2017/01/22 08:14 | 2.11       | 20.56      | 0.62           |
| 2017/01/22 08:29 | 2.11       | 20.56      | 0.62           |
| 2017/01/22 08:44 | 2.11       | 20.56      | 0.62           |
| 2017/01/22 08:59 | 2.11       | 20.56      | 0.62           |
| 2017/01/22 09:14 | 2.11       | 20.56      | 0.62           |
| 2017/01/22 09:29 | 2.26       | 18.68      | 0.51           |
| 2017/01/22 09:44 | 2.26       | 16.46      | 0.45           |
| 2017/01/22 09:59 | 2.26       | 15.90      | 0.44           |
| 2017/01/22 10:14 | 2.18       | 15.14      | 0.44           |
| 2017/01/22 10:29 | 2.18       | 15.62      | 0.45           |
| 2017/01/22 10:44 | 2.18       | 21.32      | 0.62           |
| 2017/01/22 10:59 | 2.46       | 25.14      | 0.62           |
| 2017/01/22 11:14 | 2.46       | 36.94      | 0.90           |
| 2017/01/22 11:29 | 2.46       | 34.03      | 0.83           |
| 2017/01/22 11:44 | 2.29       | 33.68      | 0.91           |
| 2017/01/22 11:59 | 2.29       | 33.68      | 0.91           |
| 2017/01/22 12:14 | 2.29       | 33.68      | 0.91           |
| 2017/01/22 12:29 | 2.32       | 34.24      | 0.91           |
| 2017/01/22 12:44 | 2.43       | 36.81      | 0.92           |
| 2017/01/22 12:59 | 2.61       | 41.18      | 0.93           |
| 2017/01/22 13:14 | 2.72       | 43.61      | 0.93           |
| 2017/01/22 13:29 | 2.75       | 42.78      | 0.90           |
| 2017/01/22 13:44 | 2.75       | 44.24      | 0.93           |
| 2017/01/22 13:59 | 2.75       | 44.24      | 0.93           |
| 2017/01/22 14:14 | 2.79       | 54.17      | 1.11           |
| 2017/01/22 14:29 | 3.14       | 64.72      | 1.14           |
| 2017/01/22 14:44 | 4.15       | 122.99     | 1.50           |
| 2017/01/22 14:59 | 5.19       | 211.60     | 1.97           |
| 2017/01/22 15:14 | 5.19       | 211.60     | 1.97           |
| 2017/01/22 15:29 | 5.19       | 211.60     | 1.97           |
| 2017/01/22 15:44 | 5.16       | 203.12     | 1.90           |
| 2017/01/22 15:59 | 3.77       | 117.43     | 1.61           |
| 2017/01/22 16:14 | 3.05       | 67.50      | 1.23           |
| 2017/01/22 16:29 | 2.48       | 37.43      | 0.90           |
| 2017/01/22 16:44 | 2.36       | 34.86      | 0.90           |
| 2017/01/22 16:59 | 2.32       | 32.29      | 0.86           |
| 2017/01/22 17:14 | 2.04       | 26.39      | 0.84           |
| 2017/01/22 17:29 | 1.98       | 24.65      | 0.81           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 17:44 | 1.97       | 24.03      | 0.80           |
| 2017/01/22 17:59 | 1.96       | 23.82      | 0.80           |
| 2017/01/22 18:14 | 1.94       | 23.33      | 0.80           |
| 2017/01/22 18:29 | 1.89       | 21.81      | 0.77           |
| 2017/01/22 18:44 | 1.87       | 21.39      | 0.77           |
| 2017/01/22 18:59 | 1.73       | 17.78      | 0.71           |
| 2017/01/22 19:14 | 1.73       | 10.97      | 0.44           |
| 2017/01/22 19:29 | 1.82       | 6.67       | 0.25           |
| 2017/01/22 19:44 | 1.87       | 6.94       | 0.25           |
| 2017/01/22 19:59 | 1.87       | 6.94       | 0.25           |
| 2017/01/22 20:14 | 1.97       | 7.50       | 0.25           |
| 2017/01/22 20:29 | 1.87       | 6.94       | 0.25           |
| 2017/01/22 20:44 | 1.87       | 6.94       | 0.25           |
| 2017/01/22 20:59 | 1.87       | 6.94       | 0.25           |
| 2017/01/22 21:14 | 1.78       | 6.46       | 0.25           |
| 2017/01/22 21:29 | 1.78       | 6.46       | 0.25           |
| 2017/01/22 21:44 | 1.79       | 6.53       | 0.25           |
| 2017/01/22 21:59 | 1.84       | 6.81       | 0.25           |
| 2017/01/22 22:14 | 1.79       | 6.53       | 0.25           |
| 2017/01/22 22:29 | 1.79       | 6.53       | 0.25           |
| 2017/01/22 22:44 | 1.64       | 5.76       | 0.25           |
| 2017/01/22 22:59 | 1.58       | 5.49       | 0.25           |
| 2017/01/22 23:14 | 1.58       | 5.49       | 0.25           |
| 2017/01/22 23:29 | 1.64       | 5.76       | 0.25           |
| 2017/01/22 23:44 | 1.66       | 5.90       | 0.25           |
| 2017/01/22 23:59 | 1.66       | 61.81      | 2.63           |
| 2017/01/23 00:14 | 2.05       | 167.08     | 5.26           |
| 2017/01/23 00:29 | 2.05       | 215.42     | 6.78           |
| 2017/01/23 00:44 | 1.94       | 145.21     | 4.94           |
| 2017/01/23 00:59 | 1.94       | 124.65     | 4.24           |
| 2017/01/23 01:14 | 1.94       | 145.21     | 4.94           |
| 2017/01/23 01:29 | 1.69       | 102.50     | 4.24           |
| 2017/01/23 01:44 | 1.62       | 92.92      | 4.08           |
| 2017/01/23 01:59 | 1.62       | 92.85      | 4.08           |
| 2017/01/23 02:14 | 1.46       | 71.39      | 3.67           |
| 2017/01/23 02:29 | 1.44       | 69.72      | 3.63           |
| 2017/01/23 02:44 | 1.44       | 69.72      | 3.63           |
| 2017/01/23 02:59 | 1.46       | 21.32      | 1.09           |
| 2017/01/23 03:14 | 1.48       | 12.36      | 0.62           |
| 2017/01/23 03:29 | 1.48       | 5.00       | 0.25           |
| 2017/01/23 03:44 | 1.48       | 5.00       | 0.25           |
| 2017/01/23 03:59 | 1.48       | 5.00       | 0.25           |
| 2017/01/23 04:14 | 1.47       | 4.93       | 0.25           |
| 2017/01/23 04:29 | 1.46       | 4.86       | 0.25           |
| 2017/01/23 04:44 | 1.46       | 4.86       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 04:59 | 1.43       | 4.72       | 0.25           |
| 2017/01/23 05:14 | 1.43       | 4.72       | 0.25           |
| 2017/01/23 05:29 | 1.43       | 4.72       | 0.25           |
| 2017/01/23 05:44 | 1.43       | 4.72       | 0.25           |
| 2017/01/23 05:59 | 1.43       | 4.72       | 0.25           |
| 2017/01/23 06:14 | 1.43       | 4.72       | 0.25           |
| 2017/01/23 06:29 | 1.44       | 4.79       | 0.25           |
| 2017/01/23 06:44 | 1.50       | 5.07       | 0.25           |
| 2017/01/23 06:59 | 1.50       | 5.07       | 0.25           |
| 2017/01/23 07:14 | 1.50       | 5.07       | 0.25           |
| 2017/01/23 07:29 | 1.55       | 12.08      | 0.57           |
| 2017/01/23 07:44 | 1.71       | 15.14      | 0.62           |
| 2017/01/23 07:59 | 1.71       | 31.60      | 1.29           |
| 2017/01/23 08:14 | 2.21       | 31.87      | 0.91           |
| 2017/01/23 08:29 | 2.21       | 26.25      | 0.75           |
| 2017/01/23 08:44 | 2.21       | 30.42      | 0.87           |
| 2017/01/23 08:59 | 2.18       | 29.86      | 0.87           |
| 2017/01/23 09:14 | 2.01       | 24.58      | 0.80           |
| 2017/01/23 09:29 | 2.01       | 24.58      | 0.80           |
| 2017/01/23 09:44 | 2.11       | 27.36      | 0.83           |
| 2017/01/23 09:59 | 2.01       | 24.58      | 0.80           |
| 2017/01/23 10:14 | 2.11       | 27.36      | 0.83           |
| 2017/01/23 10:29 | 2.30       | 33.75      | 0.90           |
| 2017/01/23 10:44 | 2.32       | 29.31      | 0.78           |
| 2017/01/23 10:59 | 2.32       | 29.31      | 0.78           |
| 2017/01/23 11:14 | 2.32       | 29.31      | 0.78           |
| 2017/01/23 11:29 | 2.32       | 29.31      | 0.78           |
| 2017/01/23 11:44 | 2.25       | 27.71      | 0.77           |
| 2017/01/23 11:59 | 2.16       | 27.71      | 0.81           |
| 2017/01/23 12:14 | 2.08       | 23.54      | 0.73           |
| 2017/01/23 12:29 | 2.08       | 25.21      | 0.78           |
| 2017/01/23 12:44 | 2.05       | 25.00      | 0.79           |
| 2017/01/23 12:59 | 2.05       | 25.00      | 0.79           |
| 2017/01/23 13:14 | 2.05       | 24.17      | 0.76           |
| 2017/01/23 13:29 | 2.05       | 24.37      | 0.77           |
| 2017/01/23 13:44 | 2.05       | 24.17      | 0.76           |
| 2017/01/23 13:59 | 2.04       | 21.60      | 0.69           |
| 2017/01/23 14:14 | 2.08       | 21.18      | 0.65           |
| 2017/01/23 14:29 | 2.04       | 17.08      | 0.54           |
| 2017/01/23 14:44 | 2.04       | 17.08      | 0.54           |
| 2017/01/23 14:59 | 2.04       | 17.22      | 0.55           |
| 2017/01/23 15:14 | 2.05       | 18.47      | 0.58           |
| 2017/01/23 15:29 | 1.94       | 16.11      | 0.55           |
| 2017/01/23 15:44 | 2.05       | 18.47      | 0.58           |
| 2017/01/23 15:59 | 2.05       | 21.46      | 0.68           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 16:14 | 2.00       | 20.69      | 0.68           |
| 2017/01/23 16:29 | 1.80       | 17.15      | 0.65           |
| 2017/01/23 16:44 | 2.00       | 20.69      | 0.68           |
| 2017/01/23 16:59 | 2.00       | 20.69      | 0.68           |
| 2017/01/23 17:14 | 2.03       | 20.21      | 0.65           |
| 2017/01/23 17:29 | 2.03       | 19.24      | 0.62           |
| 2017/01/23 17:44 | 2.07       | 20.14      | 0.63           |
| 2017/01/23 17:59 | 2.07       | 19.65      | 0.61           |
| 2017/01/23 18:14 | 2.07       | 18.54      | 0.58           |
| 2017/01/23 18:29 | 2.09       | 18.89      | 0.58           |
| 2017/01/23 18:44 | 2.16       | 21.46      | 0.63           |
| 2017/01/23 18:59 | 2.22       | 25.97      | 0.73           |
| 2017/01/23 19:14 | 2.22       | 25.97      | 0.73           |
| 2017/01/23 19:29 | 2.22       | 145.42     | 4.10           |
| 2017/01/23 19:44 | 2.22       | 158.40     | 4.47           |
| 2017/01/23 19:59 | 2.07       | 143.33     | 4.47           |
| 2017/01/23 20:14 | 2.07       | 143.33     | 4.47           |
| 2017/01/23 20:29 | 1.98       | 129.44     | 4.28           |
| 2017/01/23 20:44 | 1.98       | 129.44     | 4.28           |
| 2017/01/23 20:59 | 1.87       | 112.64     | 4.04           |
| 2017/01/23 21:14 | 1.69       | 88.12      | 3.65           |
| 2017/01/23 21:29 | 1.61       | 77.92      | 3.47           |
| 2017/01/23 21:44 | 1.59       | 25.00      | 1.13           |
| 2017/01/23 21:59 | 1.59       | 9.72       | 0.44           |
| 2017/01/23 22:14 | 1.59       | 5.56       | 0.25           |
| 2017/01/23 22:29 | 1.66       | 5.90       | 0.25           |
| 2017/01/23 22:44 | 1.97       | 7.50       | 0.25           |
| 2017/01/23 22:59 | 1.97       | 7.50       | 0.25           |
| 2017/01/23 23:14 | 1.97       | 7.50       | 0.25           |
| 2017/01/23 23:29 | 1.96       | 7.43       | 0.25           |
| 2017/01/23 23:44 | 1.79       | 6.53       | 0.25           |
| 2017/01/23 23:59 | 1.71       | 6.11       | 0.25           |
| 2017/01/24 00:14 | 1.71       | 6.11       | 0.25           |
| 2017/01/24 00:29 | 1.71       | 6.11       | 0.25           |
| 2017/01/24 00:44 | 1.68       | 5.97       | 0.25           |
| 2017/01/24 00:59 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 01:14 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 01:29 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 01:44 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 01:59 | 1.59       | 5.56       | 0.25           |
| 2017/01/24 02:14 | 1.61       | 5.62       | 0.25           |
| 2017/01/24 02:29 | 1.61       | 5.62       | 0.25           |
| 2017/01/24 02:44 | 1.61       | 5.62       | 0.25           |
| 2017/01/24 02:59 | 1.62       | 5.69       | 0.25           |
| 2017/01/24 03:14 | 1.64       | 5.76       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 03:29 | 1.64       | 5.76       | 0.25           |
| 2017/01/24 03:44 | 1.64       | 5.76       | 0.25           |
| 2017/01/24 03:59 | 1.64       | 5.76       | 0.25           |
| 2017/01/24 04:14 | 1.64       | 5.76       | 0.25           |
| 2017/01/24 04:29 | 1.64       | 5.76       | 0.25           |
| 2017/01/24 04:44 | 1.62       | 5.69       | 0.25           |
| 2017/01/24 04:59 | 1.62       | 5.69       | 0.25           |
| 2017/01/24 05:14 | 1.59       | 5.56       | 0.25           |
| 2017/01/24 05:29 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 05:44 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 05:59 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 06:14 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 06:29 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 06:44 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 06:59 | 1.58       | 5.49       | 0.25           |
| 2017/01/24 07:14 | 1.78       | 16.39      | 0.63           |
| 2017/01/24 07:29 | 2.51       | 103.89     | 2.47           |
| 2017/01/24 07:44 | 2.57       | 187.71     | 4.32           |
| 2017/01/24 07:59 | 2.57       | 265.21     | 6.11           |
| 2017/01/24 08:14 | 2.51       | 227.43     | 5.40           |
| 2017/01/24 08:29 | 2.09       | 101.53     | 3.11           |
| 2017/01/24 08:44 | 2.09       | 174.65     | 5.34           |
| 2017/01/24 08:59 | 2.09       | 174.65     | 5.34           |
| 2017/01/24 09:14 | 2.15       | 178.61     | 5.27           |
| 2017/01/24 09:29 | 2.15       | 174.17     | 5.14           |
| 2017/01/24 09:44 | 2.15       | 174.17     | 5.14           |
| 2017/01/24 09:59 | 2.11       | 166.11     | 5.03           |
| 2017/01/24 10:14 | 1.94       | 129.17     | 4.40           |
| 2017/01/24 10:29 | 1.94       | 23.26      | 0.79           |
| 2017/01/24 10:44 | 1.94       | 18.89      | 0.64           |
| 2017/01/24 10:59 | 2.00       | 18.68      | 0.61           |
| 2017/01/24 11:14 | 2.07       | 4.24       | 0.13           |
| 2017/01/24 11:29 | 2.07       | 4.17       | 0.13           |
| 2017/01/24 11:44 | 2.00       | 3.89       | 0.13           |
| 2017/01/24 11:59 | 1.83       | 3.12       | 0.11           |
| 2017/01/24 12:14 | 1.83       | 3.12       | 0.11           |
| 2017/01/24 12:29 | 1.82       | 2.99       | 0.11           |
| 2017/01/24 12:44 | 1.83       | 3.12       | 0.11           |
| 2017/01/24 12:59 | 1.83       | 3.12       | 0.11           |
| 2017/01/24 13:14 | 1.87       | 3.26       | 0.12           |
| 2017/01/24 13:29 | 1.87       | 3.26       | 0.12           |
| 2017/01/24 13:44 | 1.87       | 5.07       | 0.18           |
| 2017/01/24 13:59 | 1.94       | 5.35       | 0.18           |
| 2017/01/24 14:14 | 1.96       | 5.76       | 0.19           |
| 2017/01/24 14:29 | 2.04       | 5.97       | 0.19           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 14:44 | 1.96       | 5.69       | 0.19           |
| 2017/01/24 14:59 | 2.04       | 6.11       | 0.19           |
| 2017/01/24 15:14 | 2.04       | 143.54     | 4.56           |
| 2017/01/24 15:29 | 1.94       | 148.68     | 5.06           |
| 2017/01/24 15:44 | 1.90       | 144.17     | 5.06           |
| 2017/01/24 15:59 | 1.87       | 138.89     | 4.98           |
| 2017/01/24 16:14 | 1.80       | 125.56     | 4.75           |
| 2017/01/24 16:29 | 1.87       | 138.89     | 4.98           |
| 2017/01/24 16:44 | 1.87       | 138.89     | 4.98           |
| 2017/01/24 16:59 | 1.91       | 146.39     | 5.09           |
| 2017/01/24 17:14 | 2.05       | 173.33     | 5.46           |
| 2017/01/24 17:29 | 2.05       | 69.44      | 2.19           |
| 2017/01/24 17:44 | 2.05       | 29.51      | 0.93           |
| 2017/01/24 17:59 | 1.73       | 2.50       | 0.10           |
| 2017/01/24 18:14 | 1.73       | 2.50       | 0.10           |
| 2017/01/24 18:29 | 1.73       | 2.50       | 0.10           |
| 2017/01/24 18:44 | 1.73       | 2.50       | 0.10           |
| 2017/01/24 18:59 | 1.82       | 4.31       | 0.16           |
| 2017/01/24 19:14 | 1.83       | 5.97       | 0.22           |
| 2017/01/24 19:29 | 1.83       | 8.12       | 0.30           |
| 2017/01/24 19:44 | 1.83       | 8.68       | 0.32           |
| 2017/01/24 19:59 | 1.94       | 10.28      | 0.35           |
| 2017/01/24 20:14 | 1.94       | 10.69      | 0.36           |
| 2017/01/24 20:29 | 1.94       | 9.44       | 0.32           |
| 2017/01/24 20:44 | 2.00       | 10.21      | 0.33           |
| 2017/01/24 20:59 | 2.00       | 10.21      | 0.33           |
| 2017/01/24 21:14 | 2.00       | 10.21      | 0.33           |
| 2017/01/24 21:29 | 2.00       | 10.21      | 0.33           |
| 2017/01/24 21:44 | 2.00       | 10.21      | 0.33           |
| 2017/01/24 21:59 | 2.00       | 10.21      | 0.33           |
| 2017/01/24 22:14 | 2.00       | 3.06       | 0.10           |
| 2017/01/24 22:29 | 2.00       | 3.06       | 0.10           |
| 2017/01/24 22:44 | 1.93       | 2.92       | 0.10           |
| 2017/01/24 22:59 | 1.86       | 2.78       | 0.10           |
| 2017/01/24 23:14 | 1.76       | 2.57       | 0.10           |
| 2017/01/24 23:29 | 1.71       | 2.43       | 0.10           |
| 2017/01/24 23:44 | 1.71       | 2.43       | 0.10           |
| 2017/01/24 23:59 | 1.71       | 2.43       | 0.10           |
| 2017/01/25 00:14 | 1.71       | 2.43       | 0.10           |
| 2017/01/25 00:29 | 1.57       | 2.15       | 0.10           |
| 2017/01/25 00:44 | 1.54       | 2.08       | 0.10           |
| 2017/01/25 00:59 | 1.54       | 2.08       | 0.10           |
| 2017/01/25 01:14 | 1.51       | 59.10      | 2.88           |
| 2017/01/25 01:29 | 1.51       | 104.10     | 5.06           |
| 2017/01/25 01:44 | 1.50       | 100.56     | 4.96           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 01:59 | 1.48       | 97.78      | 4.89           |
| 2017/01/25 02:14 | 1.48       | 100.07     | 5.00           |
| 2017/01/25 02:29 | 1.47       | 97.99      | 4.96           |
| 2017/01/25 02:44 | 1.47       | 97.92      | 4.96           |
| 2017/01/25 02:59 | 1.46       | 95.21      | 4.89           |
| 2017/01/25 03:14 | 1.43       | 90.76      | 4.79           |
| 2017/01/25 03:29 | 1.43       | 90.76      | 4.79           |
| 2017/01/25 03:44 | 1.43       | 90.76      | 4.79           |
| 2017/01/25 03:59 | 1.40       | 86.46      | 4.70           |
| 2017/01/25 04:14 | 1.40       | 27.99      | 1.52           |
| 2017/01/25 04:29 | 1.40       | 12.15      | 0.66           |
| 2017/01/25 04:44 | 1.41       | 1.87       | 0.10           |
| 2017/01/25 04:59 | 1.43       | 1.87       | 0.10           |
| 2017/01/25 05:14 | 1.43       | 1.87       | 0.10           |
| 2017/01/25 05:29 | 1.43       | 1.87       | 0.10           |
| 2017/01/25 05:44 | 1.41       | 1.87       | 0.10           |
| 2017/01/25 05:59 | 1.43       | 1.87       | 0.10           |
| 2017/01/25 06:14 | 1.46       | 1.94       | 0.10           |
| 2017/01/25 06:29 | 1.46       | 1.94       | 0.10           |
| 2017/01/25 06:44 | 1.48       | 2.01       | 0.10           |
| 2017/01/25 06:59 | 1.53       | 2.08       | 0.10           |
| 2017/01/25 07:14 | 1.87       | 4.44       | 0.16           |
| 2017/01/25 07:29 | 1.93       | 5.83       | 0.20           |
| 2017/01/25 07:44 | 1.93       | 5.83       | 0.20           |
| 2017/01/25 07:59 | 2.04       | 7.22       | 0.23           |
| 2017/01/25 08:14 | 2.04       | 7.22       | 0.23           |
| 2017/01/25 08:29 | 2.04       | 7.22       | 0.23           |
| 2017/01/25 08:44 | 2.05       | 7.92       | 0.25           |
| 2017/01/25 08:59 | 2.08       | 8.75       | 0.27           |
| 2017/01/25 09:14 | 2.08       | 8.75       | 0.27           |
| 2017/01/25 09:29 | 2.08       | 8.75       | 0.27           |
| 2017/01/25 09:44 | 2.26       | 10.56      | 0.29           |
| 2017/01/25 09:59 | 2.28       | 11.04      | 0.30           |
| 2017/01/25 10:14 | 2.43       | 13.19      | 0.33           |
| 2017/01/25 10:29 | 2.43       | 11.53      | 0.29           |
| 2017/01/25 10:44 | 2.29       | 8.33       | 0.23           |
| 2017/01/25 10:59 | 2.28       | 11.18      | 0.31           |
| 2017/01/25 11:14 | 2.14       | 9.72       | 0.29           |
| 2017/01/25 11:29 | 2.14       | 9.72       | 0.29           |
| 2017/01/25 11:44 | 2.03       | 9.51       | 0.31           |
| 2017/01/25 11:59 | 2.12       | 11.81      | 0.35           |
| 2017/01/25 12:14 | 2.12       | 11.81      | 0.35           |
| 2017/01/25 12:29 | 2.12       | 11.81      | 0.35           |
| 2017/01/25 12:44 | 2.00       | 8.75       | 0.29           |
| 2017/01/25 12:59 | 2.00       | 8.75       | 0.29           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 13:14 | 2.00       | 8.75       | 0.29           |
| 2017/01/25 13:29 | 1.93       | 22.71      | 0.78           |
| 2017/01/25 13:44 | 1.93       | 22.71      | 0.78           |
| 2017/01/25 13:59 | 1.91       | 22.50      | 0.78           |
| 2017/01/25 14:14 | 1.79       | 19.03      | 0.73           |
| 2017/01/25 14:29 | 1.79       | 19.03      | 0.73           |
| 2017/01/25 14:44 | 1.79       | 15.49      | 0.59           |
| 2017/01/25 14:59 | 1.90       | 15.62      | 0.55           |
| 2017/01/25 15:14 | 2.14       | 6.74       | 0.20           |
| 2017/01/25 15:29 | 2.14       | 6.18       | 0.18           |
| 2017/01/25 15:44 | 2.14       | 6.18       | 0.18           |
| 2017/01/25 15:59 | 1.75       | 3.75       | 0.15           |
| 2017/01/25 16:14 | 1.75       | 3.75       | 0.15           |
| 2017/01/25 16:29 | 1.75       | 3.75       | 0.15           |
| 2017/01/25 16:44 | 1.75       | 3.75       | 0.15           |
| 2017/01/25 16:59 | 1.75       | 3.75       | 0.15           |
| 2017/01/25 17:14 | 1.65       | 3.26       | 0.14           |
| 2017/01/25 17:29 | 1.65       | 3.26       | 0.14           |
| 2017/01/25 17:44 | 1.65       | 3.26       | 0.14           |
| 2017/01/25 17:59 | 1.76       | 2.57       | 0.10           |
| 2017/01/25 18:14 | 1.84       | 2.71       | 0.10           |
| 2017/01/25 18:29 | 1.94       | 2.92       | 0.10           |
| 2017/01/25 18:44 | 1.94       | 2.92       | 0.10           |
| 2017/01/25 18:59 | 1.94       | 9.17       | 0.31           |
| 2017/01/25 19:14 | 1.89       | 8.68       | 0.31           |
| 2017/01/25 19:29 | 1.89       | 8.96       | 0.32           |
| 2017/01/25 19:44 | 1.86       | 8.26       | 0.30           |
| 2017/01/25 19:59 | 1.86       | 8.54       | 0.31           |
| 2017/01/25 20:14 | 1.86       | 8.54       | 0.31           |
| 2017/01/25 20:29 | 1.80       | 7.92       | 0.30           |
| 2017/01/25 20:44 | 1.78       | 7.57       | 0.29           |
| 2017/01/25 20:59 | 1.65       | 6.39       | 0.27           |
| 2017/01/25 21:14 | 1.62       | 6.18       | 0.27           |
| 2017/01/25 21:29 | 1.59       | 5.90       | 0.27           |
| 2017/01/25 21:44 | 1.51       | 2.08       | 0.10           |
| 2017/01/25 21:59 | 1.47       | 1.94       | 0.10           |
| 2017/01/25 22:14 | 1.47       | 1.94       | 0.10           |
| 2017/01/25 22:29 | 1.51       | 2.08       | 0.10           |
| 2017/01/25 22:44 | 1.51       | 2.08       | 0.10           |
| 2017/01/25 22:59 | 1.91       | 2.85       | 0.10           |
| 2017/01/25 23:14 | 2.01       | 25.90      | 0.84           |
| 2017/01/25 23:29 | 2.01       | 51.53      | 1.67           |
| 2017/01/25 23:44 | 2.01       | 36.39      | 1.18           |
| 2017/01/25 23:59 | 1.93       | 28.06      | 0.96           |
| 2017/01/26 00:14 | 1.93       | 25.00      | 0.86           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 00:29 | 1.61       | 21.67      | 0.96           |
| 2017/01/26 00:44 | 1.61       | 21.67      | 0.96           |
| 2017/01/26 00:59 | 1.61       | 21.67      | 0.96           |
| 2017/01/26 01:14 | 1.50       | 18.82      | 0.93           |
| 2017/01/26 01:29 | 1.50       | 18.82      | 0.93           |
| 2017/01/26 01:44 | 1.53       | 19.65      | 0.94           |
| 2017/01/26 01:59 | 1.53       | 19.65      | 0.94           |
| 2017/01/26 02:14 | 1.53       | 19.65      | 0.94           |
| 2017/01/26 02:29 | 1.62       | 10.69      | 0.47           |
| 2017/01/26 02:44 | 1.62       | 2.29       | 0.10           |
| 2017/01/26 02:59 | 1.62       | 2.29       | 0.10           |
| 2017/01/26 03:14 | 1.40       | 1.87       | 0.10           |
| 2017/01/26 03:29 | 1.40       | 1.87       | 0.10           |
| 2017/01/26 03:44 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 03:59 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 04:14 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 04:29 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 04:44 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 04:59 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 05:14 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 05:29 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 05:44 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 05:59 | 1.36       | 1.74       | 0.10           |
| 2017/01/26 06:14 | 1.36       | 1.74       | 0.10           |
| 2017/01/26 06:29 | 1.36       | 1.74       | 0.10           |
| 2017/01/26 06:44 | 1.36       | 1.74       | 0.10           |
| 2017/01/26 06:59 | 1.37       | 1.81       | 0.10           |
| 2017/01/26 07:14 | 1.40       | 1.87       | 0.10           |
| 2017/01/26 07:29 | 1.40       | 1.87       | 0.10           |
| 2017/01/26 07:44 | 1.47       | 1.94       | 0.10           |
| 2017/01/26 07:59 | 1.72       | 3.68       | 0.15           |
| 2017/01/26 08:14 | 1.79       | 4.17       | 0.16           |
| 2017/01/26 08:29 | 1.79       | 4.17       | 0.16           |
| 2017/01/26 08:44 | 1.80       | 5.83       | 0.22           |
| 2017/01/26 08:59 | 1.80       | 5.83       | 0.22           |
| 2017/01/26 09:14 | 1.80       | 5.83       | 0.22           |
| 2017/01/26 09:29 | 1.94       | 7.36       | 0.25           |
| 2017/01/26 09:44 | 2.00       | 8.54       | 0.28           |
| 2017/01/26 09:59 | 2.00       | 8.54       | 0.28           |
| 2017/01/26 10:14 | 2.03       | 9.72       | 0.31           |
| 2017/01/26 10:29 | 2.08       | 10.97      | 0.34           |
| 2017/01/26 10:44 | 2.18       | 12.78      | 0.37           |
| 2017/01/26 10:59 | 2.18       | 12.78      | 0.37           |
| 2017/01/26 11:14 | 2.08       | 11.32      | 0.35           |
| 2017/01/26 11:29 | 1.87       | 10.83      | 0.39           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 11:44 | 1.86       | 11.04      | 0.40           |
| 2017/01/26 11:59 | 1.80       | 11.32      | 0.43           |
| 2017/01/26 12:14 | 1.80       | 12.64      | 0.48           |
| 2017/01/26 12:29 | 1.80       | 14.58      | 0.55           |
| 2017/01/26 12:44 | 2.39       | 18.12      | 0.46           |
| 2017/01/26 12:59 | 2.39       | 13.89      | 0.35           |
| 2017/01/26 13:14 | 2.39       | 11.87      | 0.30           |
| 2017/01/26 13:29 | 1.97       | 10.62      | 0.35           |
| 2017/01/26 13:44 | 1.97       | 10.62      | 0.35           |
| 2017/01/26 13:59 | 1.80       | 8.61       | 0.33           |
| 2017/01/26 14:14 | 1.80       | 8.61       | 0.33           |
| 2017/01/26 14:29 | 1.80       | 8.61       | 0.33           |
| 2017/01/26 14:44 | 1.80       | 8.61       | 0.33           |
| 2017/01/26 14:59 | 1.80       | 8.61       | 0.33           |
| 2017/01/26 15:14 | 1.89       | 10.62      | 0.38           |
| 2017/01/26 15:29 | 1.72       | 13.19      | 0.53           |
| 2017/01/26 15:44 | 1.69       | 12.92      | 0.53           |
| 2017/01/26 15:59 | 1.61       | 12.01      | 0.53           |
| 2017/01/26 16:14 | 1.61       | 12.01      | 0.53           |
| 2017/01/26 16:29 | 1.61       | 12.01      | 0.53           |
| 2017/01/26 16:44 | 2.03       | 21.32      | 0.68           |
| 2017/01/26 16:59 | 2.07       | 22.36      | 0.70           |
| 2017/01/26 17:14 | 2.19       | 25.76      | 0.74           |
| 2017/01/26 17:29 | 2.21       | 166.53     | 4.74           |
| 2017/01/26 17:44 | 2.21       | 166.53     | 4.74           |
| 2017/01/26 17:59 | 2.21       | 166.53     | 4.74           |
| 2017/01/26 18:14 | 1.93       | 119.24     | 4.10           |
| 2017/01/26 18:29 | 1.93       | 118.40     | 4.07           |
| 2017/01/26 18:44 | 1.73       | 91.25      | 3.65           |
| 2017/01/26 18:59 | 1.72       | 89.17      | 3.61           |
| 2017/01/26 19:14 | 1.59       | 74.24      | 3.34           |
| 2017/01/26 19:29 | 1.53       | 66.60      | 3.20           |
| 2017/01/26 19:44 | 1.53       | 30.76      | 1.47           |
| 2017/01/26 19:59 | 1.53       | 15.90      | 0.76           |
| 2017/01/26 20:14 | 1.65       | 7.22       | 0.31           |
| 2017/01/26 20:29 | 1.68       | 2.36       | 0.10           |
| 2017/01/26 20:44 | 1.68       | 2.36       | 0.10           |
| 2017/01/26 20:59 | 1.68       | 2.36       | 0.10           |
| 2017/01/26 21:14 | 1.69       | 2.43       | 0.10           |
| 2017/01/26 21:29 | 1.69       | 2.43       | 0.10           |
| 2017/01/26 21:44 | 1.86       | 2.78       | 0.10           |
| 2017/01/26 21:59 | 1.86       | 2.78       | 0.10           |
| 2017/01/26 22:14 | 1.86       | 2.78       | 0.10           |
| 2017/01/26 22:29 | 1.79       | 2.64       | 0.10           |
| 2017/01/26 22:44 | 1.79       | 2.64       | 0.10           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 22:59 | 1.79       | 2.64       | 0.10           |
| 2017/01/26 23:14 | 1.62       | 2.29       | 0.10           |
| 2017/01/26 23:29 | 1.62       | 2.29       | 0.10           |
| 2017/01/26 23:44 | 1.54       | 2.08       | 0.10           |
| 2017/01/26 23:59 | 1.48       | 2.01       | 0.10           |
| 2017/01/27 00:14 | 1.48       | 2.01       | 0.10           |
| 2017/01/27 00:29 | 1.47       | 1.94       | 0.10           |
| 2017/01/27 00:44 | 1.48       | 2.01       | 0.10           |
| 2017/01/27 00:59 | 1.48       | 2.01       | 0.10           |
| 2017/01/27 01:14 | 1.64       | 2.29       | 0.10           |
| 2017/01/27 01:29 | 1.84       | 2.71       | 0.10           |
| 2017/01/27 01:44 | 1.87       | 2.78       | 0.10           |
| 2017/01/27 01:59 | 1.89       | 2.85       | 0.10           |
| 2017/01/27 02:14 | 1.89       | 2.85       | 0.10           |
| 2017/01/27 02:29 | 1.87       | 2.78       | 0.10           |
| 2017/01/27 02:44 | 1.79       | 2.64       | 0.10           |
| 2017/01/27 02:59 | 1.65       | 2.36       | 0.10           |
| 2017/01/27 03:14 | 1.65       | 2.36       | 0.10           |
| 2017/01/27 03:29 | 1.65       | 2.36       | 0.10           |
| 2017/01/27 03:44 | 1.65       | 2.36       | 0.10           |
| 2017/01/27 03:59 | 1.73       | 2.50       | 0.10           |
| 2017/01/27 04:14 | 1.75       | 2.57       | 0.10           |
| 2017/01/27 04:29 | 1.80       | 2.64       | 0.10           |
| 2017/01/27 04:44 | 1.75       | 2.57       | 0.10           |
| 2017/01/27 04:59 | 1.75       | 2.57       | 0.10           |
| 2017/01/27 05:14 | 1.47       | 1.94       | 0.10           |
| 2017/01/27 05:29 | 1.37       | 1.81       | 0.10           |
| 2017/01/27 05:44 | 1.37       | 1.81       | 0.10           |
| 2017/01/27 05:59 | 1.37       | 1.81       | 0.10           |
| 2017/01/27 06:14 | 1.46       | 1.94       | 0.10           |
| 2017/01/27 06:29 | 1.46       | 1.94       | 0.10           |
| 2017/01/27 06:44 | 1.46       | 18.61      | 0.95           |
| 2017/01/27 06:59 | 1.48       | 24.31      | 1.22           |
| 2017/01/27 07:14 | 1.40       | 58.75      | 3.19           |
| 2017/01/27 07:29 | 1.40       | 93.33      | 5.07           |
| 2017/01/27 07:44 | 1.54       | 150.76     | 7.15           |
| 2017/01/27 07:59 | 1.54       | 151.53     | 7.18           |
| 2017/01/27 08:14 | 2.11       | 242.92     | 7.36           |
| 2017/01/27 08:29 | 2.11       | 236.87     | 7.18           |
| 2017/01/27 08:44 | 2.11       | 236.87     | 7.18           |
| 2017/01/27 08:59 | 2.11       | 236.87     | 7.18           |
| 2017/01/27 09:14 | 2.05       | 218.75     | 6.88           |
| 2017/01/27 09:29 | 2.03       | 211.67     | 6.79           |
| 2017/01/27 09:44 | 2.03       | 211.67     | 6.79           |
| 2017/01/27 09:59 | 2.03       | 211.67     | 6.79           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 10:14 | 2.03       | 211.67     | 6.79           |
| 2017/01/27 10:29 | 2.01       | 19.10      | 0.62           |
| 2017/01/27 10:44 | 1.94       | 17.99      | 0.61           |
| 2017/01/27 10:59 | 1.94       | 17.99      | 0.61           |
| 2017/01/27 11:14 | 1.93       | 17.78      | 0.61           |
| 2017/01/27 11:29 | 1.93       | 17.78      | 0.61           |
| 2017/01/27 11:44 | 1.93       | 17.78      | 0.61           |
| 2017/01/27 11:59 | 2.01       | 19.79      | 0.64           |
| 2017/01/27 12:14 | 2.18       | 23.68      | 0.69           |
| 2017/01/27 12:29 | 2.19       | 24.03      | 0.69           |
| 2017/01/27 12:44 | 2.19       | 24.03      | 0.69           |
| 2017/01/27 12:59 | 2.19       | 87.71      | 2.52           |
| 2017/01/27 13:14 | 2.19       | 184.51     | 5.30           |
| 2017/01/27 13:29 | 2.19       | 191.39     | 5.49           |
| 2017/01/27 13:44 | 2.05       | 150.56     | 4.74           |
| 2017/01/27 13:59 | 2.05       | 110.35     | 3.47           |
| 2017/01/27 14:14 | 2.03       | 147.71     | 4.74           |
| 2017/01/27 14:29 | 2.03       | 132.01     | 4.23           |
| 2017/01/27 14:44 | 2.03       | 108.26     | 3.47           |
| 2017/01/27 14:59 | 2.12       | 66.39      | 1.99           |
| 2017/01/27 15:14 | 2.14       | 15.21      | 0.45           |
| 2017/01/27 15:29 | 2.14       | 13.68      | 0.41           |
| 2017/01/27 15:44 | 2.14       | 13.40      | 0.40           |
| 2017/01/27 15:59 | 2.14       | 13.40      | 0.40           |
| 2017/01/27 16:14 | 2.14       | 13.40      | 0.40           |
| 2017/01/27 16:29 | 2.16       | 13.96      | 0.41           |
| 2017/01/27 16:44 | 2.16       | 13.96      | 0.41           |
| 2017/01/27 16:59 | 2.16       | 13.96      | 0.41           |
| 2017/01/27 17:14 | 1.96       | 10.90      | 0.37           |
| 2017/01/27 17:29 | 1.89       | 30.00      | 1.06           |
| 2017/01/27 17:44 | 1.84       | 93.61      | 3.44           |
| 2017/01/27 17:59 | 1.79       | 135.35     | 5.17           |
| 2017/01/27 18:14 | 1.79       | 148.33     | 5.67           |
| 2017/01/27 18:29 | 1.79       | 185.97     | 7.11           |
| 2017/01/27 18:44 | 1.96       | 194.17     | 6.54           |
| 2017/01/27 18:59 | 2.08       | 196.74     | 6.07           |
| 2017/01/27 19:14 | 2.08       | 196.74     | 6.07           |
| 2017/01/27 19:29 | 2.22       | 215.35     | 6.07           |
| 2017/01/27 19:44 | 2.22       | 215.35     | 6.07           |
| 2017/01/27 19:59 | 2.26       | 221.04     | 6.07           |
| 2017/01/27 20:14 | 2.26       | 214.65     | 5.90           |
| 2017/01/27 20:29 | 2.26       | 214.65     | 5.90           |
| 2017/01/27 20:44 | 2.16       | 193.40     | 5.65           |
| 2017/01/27 20:59 | 2.04       | 165.90     | 5.27           |
| 2017/01/27 21:14 | 2.00       | 158.40     | 5.18           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 21:29 | 1.90       | 139.93     | 4.91           |
| 2017/01/27 21:44 | 1.80       | 123.26     | 4.66           |
| 2017/01/27 21:59 | 1.80       | 123.26     | 4.66           |
| 2017/01/27 22:14 | 1.90       | 57.85      | 2.03           |
| 2017/01/27 22:29 | 1.91       | 2.85       | 0.10           |
| 2017/01/27 22:44 | 1.91       | 2.85       | 0.10           |
| 2017/01/27 22:59 | 2.05       | 3.19       | 0.10           |
| 2017/01/27 23:14 | 2.11       | 3.33       | 0.10           |
| 2017/01/27 23:29 | 2.14       | 3.40       | 0.10           |
| 2017/01/27 23:44 | 2.05       | 3.19       | 0.10           |
| 2017/01/27 23:59 | 2.05       | 3.19       | 0.10           |
| 2017/01/28 00:14 | 1.96       | 2.99       | 0.10           |
| 2017/01/28 00:29 | 1.94       | 2.92       | 0.10           |
| 2017/01/28 00:44 | 1.89       | 2.85       | 0.10           |
| 2017/01/28 00:59 | 1.73       | 16.74      | 0.67           |
| 2017/01/28 01:14 | 1.73       | 17.57      | 0.70           |
| 2017/01/28 01:29 | 1.73       | 19.79      | 0.79           |
| 2017/01/28 01:44 | 1.82       | 21.60      | 0.81           |
| 2017/01/28 01:59 | 2.03       | 24.72      | 0.79           |
| 2017/01/28 02:14 | 2.03       | 24.72      | 0.79           |
| 2017/01/28 02:29 | 2.03       | 24.72      | 0.79           |
| 2017/01/28 02:44 | 1.48       | 11.32      | 0.56           |
| 2017/01/28 02:59 | 1.36       | 9.10       | 0.52           |
| 2017/01/28 03:14 | 1.33       | 8.68       | 0.51           |
| 2017/01/28 03:29 | 1.33       | 8.68       | 0.51           |
| 2017/01/28 03:44 | 1.33       | 1.74       | 0.10           |
| 2017/01/28 03:59 | 1.36       | 1.74       | 0.10           |
| 2017/01/28 04:14 | 1.36       | 1.74       | 0.10           |
| 2017/01/28 04:29 | 1.36       | 1.74       | 0.10           |
| 2017/01/28 04:44 | 1.33       | 1.74       | 0.10           |
| 2017/01/28 04:59 | 1.33       | 1.74       | 0.10           |
| 2017/01/28 05:14 | 1.33       | 1.74       | 0.10           |
| 2017/01/28 05:29 | 1.36       | 1.74       | 0.10           |
| 2017/01/28 05:44 | 1.36       | 1.74       | 0.10           |
| 2017/01/28 05:59 | 1.37       | 1.81       | 0.10           |
| 2017/01/28 06:14 | 1.37       | 1.81       | 0.10           |
| 2017/01/28 06:29 | 1.40       | 1.87       | 0.10           |
| 2017/01/28 06:44 | 1.40       | 1.87       | 0.10           |
| 2017/01/28 06:59 | 1.43       | 1.87       | 0.10           |
| 2017/01/28 07:14 | 1.43       | 3.96       | 0.21           |
| 2017/01/28 07:29 | 1.43       | 4.31       | 0.23           |
| 2017/01/28 07:44 | 1.73       | 6.53       | 0.26           |
| 2017/01/28 07:59 | 1.86       | 6.46       | 0.23           |
| 2017/01/28 08:14 | 1.93       | 6.81       | 0.23           |
| 2017/01/28 08:29 | 1.93       | 6.81       | 0.23           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 08:44 | 1.93       | 6.81       | 0.23           |
| 2017/01/28 08:59 | 1.73       | 5.14       | 0.21           |
| 2017/01/28 09:14 | 1.65       | 4.79       | 0.21           |
| 2017/01/28 09:29 | 1.65       | 4.79       | 0.21           |
| 2017/01/28 09:44 | 1.73       | 15.56      | 0.62           |
| 2017/01/28 09:59 | 1.73       | 16.87      | 0.68           |
| 2017/01/28 10:14 | 1.84       | 19.79      | 0.72           |
| 2017/01/28 10:29 | 1.93       | 22.15      | 0.76           |
| 2017/01/28 10:44 | 1.98       | 23.75      | 0.78           |
| 2017/01/28 10:59 | 2.04       | 25.49      | 0.81           |
| 2017/01/28 11:14 | 2.11       | 27.64      | 0.84           |
| 2017/01/28 11:29 | 2.15       | 28.96      | 0.85           |
| 2017/01/28 11:44 | 2.33       | 35.14      | 0.93           |
| 2017/01/28 11:59 | 2.34       | 17.92      | 0.47           |
| 2017/01/28 12:14 | 2.34       | 3.82       | 0.10           |
| 2017/01/28 12:29 | 2.33       | 3.82       | 0.10           |
| 2017/01/28 12:44 | 1.73       | 2.50       | 0.10           |
| 2017/01/28 12:59 | 1.69       | 2.43       | 0.10           |
| 2017/01/28 13:14 | 1.69       | 2.43       | 0.10           |
| 2017/01/28 13:29 | 1.69       | 2.43       | 0.10           |
| 2017/01/28 13:44 | 1.72       | 2.50       | 0.10           |
| 2017/01/28 13:59 | 1.79       | 2.64       | 0.10           |
| 2017/01/28 14:14 | 1.96       | 58.96      | 1.98           |
| 2017/01/28 14:29 | 2.08       | 172.29     | 5.32           |
| 2017/01/28 14:44 | 2.26       | 204.86     | 5.63           |
| 2017/01/28 14:59 | 2.26       | 172.85     | 4.75           |
| 2017/01/28 15:14 | 2.26       | 193.47     | 5.32           |
| 2017/01/28 15:29 | 2.21       | 187.01     | 5.32           |
| 2017/01/28 15:44 | 2.19       | 188.68     | 5.42           |
| 2017/01/28 15:59 | 2.19       | 188.68     | 5.42           |
| 2017/01/28 16:14 | 2.21       | 192.29     | 5.47           |
| 2017/01/28 16:29 | 2.23       | 197.50     | 5.52           |
| 2017/01/28 16:44 | 2.23       | 197.50     | 5.52           |
| 2017/01/28 16:59 | 2.23       | 197.50     | 5.52           |
| 2017/01/28 17:14 | 2.26       | 204.65     | 5.62           |
| 2017/01/28 17:29 | 2.04       | 159.65     | 5.07           |
| 2017/01/28 17:44 | 2.04       | 142.29     | 4.52           |
| 2017/01/28 17:59 | 2.04       | 130.28     | 4.14           |
| 2017/01/28 18:14 | 2.11       | 19.79      | 0.60           |
| 2017/01/28 18:29 | 1.91       | 17.29      | 0.60           |
| 2017/01/28 18:44 | 2.03       | 18.68      | 0.60           |
| 2017/01/28 18:59 | 2.03       | 158.12     | 5.07           |
| 2017/01/28 19:14 | 2.11       | 204.37     | 6.20           |
| 2017/01/28 19:29 | 2.03       | 193.12     | 6.20           |
| 2017/01/28 19:44 | 2.03       | 193.12     | 6.20           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 19:59 | 1.76       | 136.94     | 5.35           |
| 2017/01/28 20:14 | 1.50       | 12.36      | 0.61           |
| 2017/01/28 20:29 | 1.50       | 12.36      | 0.61           |
| 2017/01/28 20:44 | 1.50       | 12.36      | 0.61           |
| 2017/01/28 20:59 | 1.71       | 17.22      | 0.70           |
| 2017/01/28 21:14 | 1.71       | 17.22      | 0.70           |
| 2017/01/28 21:29 | 1.89       | 21.87      | 0.78           |
| 2017/01/28 21:44 | 1.71       | 17.22      | 0.70           |
| 2017/01/28 21:59 | 1.71       | 17.22      | 0.70           |
| 2017/01/28 22:14 | 1.78       | 18.89      | 0.73           |
| 2017/01/28 22:29 | 1.78       | 18.89      | 0.73           |
| 2017/01/28 22:44 | 1.71       | 12.99      | 0.53           |
| 2017/01/28 22:59 | 1.71       | 12.99      | 0.53           |
| 2017/01/28 23:14 | 1.65       | 2.36       | 0.10           |
| 2017/01/28 23:29 | 1.65       | 2.36       | 0.10           |
| 2017/01/28 23:44 | 1.58       | 2.22       | 0.10           |
| 2017/01/28 23:59 | 1.58       | 2.22       | 0.10           |
| 2017/01/29 00:14 | 1.58       | 2.22       | 0.10           |
| 2017/01/29 00:29 | 1.48       | 63.06      | 3.16           |
| 2017/01/29 00:44 | 1.41       | 102.64     | 5.49           |
| 2017/01/29 00:59 | 1.41       | 95.83      | 5.13           |
| 2017/01/29 01:14 | 1.41       | 124.17     | 6.65           |
| 2017/01/29 01:29 | 1.41       | 172.71     | 9.24           |
| 2017/01/29 01:44 | 1.69       | 160.62     | 6.65           |
| 2017/01/29 01:59 | 1.87       | 206.94     | 7.42           |
| 2017/01/29 02:14 | 1.87       | 206.94     | 7.42           |
| 2017/01/29 02:29 | 1.93       | 223.12     | 7.67           |
| 2017/01/29 02:44 | 1.93       | 223.12     | 7.67           |
| 2017/01/29 02:59 | 2.00       | 241.87     | 7.91           |
| 2017/01/29 03:14 | 2.11       | 275.55     | 8.35           |
| 2017/01/29 03:29 | 2.15       | 103.06     | 3.04           |
| 2017/01/29 03:44 | 2.19       | 29.93      | 0.86           |
| 2017/01/29 03:59 | 2.28       | 3.68       | 0.10           |
| 2017/01/29 04:14 | 2.28       | 3.68       | 0.10           |
| 2017/01/29 04:29 | 2.28       | 3.68       | 0.10           |
| 2017/01/29 04:44 | 2.25       | 3.61       | 0.10           |
| 2017/01/29 04:59 | 2.14       | 3.40       | 0.10           |
| 2017/01/29 05:14 | 2.11       | 3.33       | 0.10           |
| 2017/01/29 05:29 | 2.11       | 3.33       | 0.10           |
| 2017/01/29 05:44 | 2.04       | 3.12       | 0.10           |
| 2017/01/29 05:59 | 2.04       | 3.12       | 0.10           |
| 2017/01/29 06:14 | 2.04       | 3.12       | 0.10           |
| 2017/01/29 06:29 | 1.97       | 2.99       | 0.10           |
| 2017/01/29 06:44 | 1.71       | 2.43       | 0.10           |
| 2017/01/29 06:59 | 1.61       | 2.22       | 0.10           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 07:14 | 1.61       | 2.22       | 0.10           |
| 2017/01/29 07:29 | 1.68       | 2.36       | 0.10           |
| 2017/01/29 07:44 | 1.71       | 2.43       | 0.10           |
| 2017/01/29 07:59 | 1.72       | 2.50       | 0.10           |
| 2017/01/29 08:14 | 1.82       | 2.71       | 0.10           |
| 2017/01/29 08:29 | 2.01       | 3.06       | 0.10           |
| 2017/01/29 08:44 | 2.16       | 23.19      | 0.68           |
| 2017/01/29 08:59 | 2.25       | 70.07      | 1.94           |
| 2017/01/29 09:14 | 2.26       | 129.10     | 3.55           |
| 2017/01/29 09:29 | 2.32       | 198.19     | 5.27           |
| 2017/01/29 09:44 | 2.32       | 190.14     | 5.05           |
| 2017/01/29 09:59 | 2.32       | 142.29     | 3.78           |
| 2017/01/29 10:14 | 2.26       | 174.37     | 4.79           |
| 2017/01/29 10:29 | 2.32       | 190.14     | 5.05           |
| 2017/01/29 10:44 | 2.25       | 175.76     | 4.87           |
| 2017/01/29 10:59 | 2.25       | 175.76     | 4.87           |
| 2017/01/29 11:14 | 2.36       | 197.29     | 5.11           |
| 2017/01/29 11:29 | 2.40       | 207.50     | 5.25           |
| 2017/01/29 11:44 | 2.43       | 211.39     | 5.26           |
| 2017/01/29 11:59 | 2.43       | 211.39     | 5.26           |
| 2017/01/29 12:14 | 2.43       | 211.39     | 5.26           |
| 2017/01/29 12:29 | 2.28       | 99.72      | 2.71           |
| 2017/01/29 12:44 | 2.04       | 26.11      | 0.83           |
| 2017/01/29 12:59 | 2.01       | 3.06       | 0.10           |
| 2017/01/29 13:14 | 1.97       | 2.99       | 0.10           |
| 2017/01/29 13:29 | 1.97       | 2.99       | 0.10           |
| 2017/01/29 13:44 | 1.97       | 2.99       | 0.10           |
| 2017/01/29 13:59 | 2.00       | 3.06       | 0.10           |
| 2017/01/29 14:14 | 2.11       | 3.33       | 0.10           |
| 2017/01/29 14:29 | 2.29       | 3.68       | 0.10           |
| 2017/01/29 14:44 | 2.29       | 3.68       | 0.10           |
| 2017/01/29 14:59 | 2.29       | 3.68       | 0.10           |
| 2017/01/29 15:14 | 1.78       | 2.57       | 0.10           |
| 2017/01/29 15:29 | 1.78       | 2.57       | 0.10           |
| 2017/01/29 15:44 | 1.78       | 2.57       | 0.10           |
| 2017/01/29 15:59 | 1.93       | 2.92       | 0.10           |
| 2017/01/29 16:14 | 2.05       | 3.19       | 0.10           |
| 2017/01/29 16:29 | 2.22       | 23.82      | 0.67           |
| 2017/01/29 16:44 | 2.22       | 23.68      | 0.67           |
| 2017/01/29 16:59 | 2.23       | 190.76     | 5.33           |
| 2017/01/29 17:14 | 2.23       | 129.24     | 3.61           |
| 2017/01/29 17:29 | 2.22       | 128.12     | 3.61           |
| 2017/01/29 17:44 | 2.22       | 170.76     | 4.82           |
| 2017/01/29 17:59 | 2.23       | 172.22     | 4.82           |
| 2017/01/29 18:14 | 2.23       | 129.24     | 3.61           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 18:29 | 2.23       | 101.53     | 2.84           |
| 2017/01/29 18:44 | 2.23       | 80.90      | 2.26           |
| 2017/01/29 18:59 | 2.03       | 61.87      | 1.98           |
| 2017/01/29 19:14 | 1.96       | 56.39      | 1.90           |
| 2017/01/29 19:29 | 1.75       | 42.43      | 1.68           |
| 2017/01/29 19:44 | 1.71       | 39.58      | 1.62           |
| 2017/01/29 19:59 | 1.65       | 36.60      | 1.57           |
| 2017/01/29 20:14 | 1.65       | 36.60      | 1.57           |
| 2017/01/29 20:29 | 1.65       | 36.60      | 1.57           |
| 2017/01/29 20:44 | 1.61       | 9.93       | 0.44           |
| 2017/01/29 20:59 | 1.61       | 9.93       | 0.44           |
| 2017/01/29 21:14 | 1.68       | 2.36       | 0.10           |
| 2017/01/29 21:29 | 1.58       | 2.22       | 0.10           |
| 2017/01/29 21:44 | 1.48       | 2.01       | 0.10           |
| 2017/01/29 21:59 | 1.48       | 2.01       | 0.10           |
| 2017/01/29 22:14 | 1.43       | 1.87       | 0.10           |
| 2017/01/29 22:29 | 1.43       | 1.87       | 0.10           |
| 2017/01/29 22:44 | 1.43       | 1.87       | 0.10           |
| 2017/01/29 22:59 | 1.46       | 1.94       | 0.10           |
| 2017/01/29 23:14 | 1.47       | 1.94       | 0.10           |
| 2017/01/29 23:29 | 1.51       | 2.08       | 0.10           |
| 2017/01/29 23:44 | 1.51       | 2.08       | 0.10           |
| 2017/01/29 23:59 | 1.51       | 2.08       | 0.10           |
| 2017/01/30 00:14 | 1.54       | 2.08       | 0.10           |
| 2017/01/30 00:29 | 1.53       | 2.08       | 0.10           |
| 2017/01/30 00:44 | 1.53       | 51.87      | 2.48           |
| 2017/01/30 00:59 | 1.53       | 122.36     | 5.87           |
| 2017/01/30 01:14 | 1.54       | 131.18     | 6.22           |
| 2017/01/30 01:29 | 1.53       | 122.50     | 5.88           |
| 2017/01/30 01:44 | 1.48       | 115.14     | 5.75           |
| 2017/01/30 01:59 | 1.48       | 117.57     | 5.87           |
| 2017/01/30 02:14 | 1.46       | 112.01     | 5.75           |
| 2017/01/30 02:29 | 1.46       | 111.32     | 5.71           |
| 2017/01/30 02:44 | 1.44       | 108.96     | 5.67           |
| 2017/01/30 02:59 | 1.44       | 108.96     | 5.67           |
| 2017/01/30 03:14 | 1.44       | 108.96     | 5.67           |
| 2017/01/30 03:29 | 1.46       | 111.53     | 5.73           |
| 2017/01/30 03:44 | 1.46       | 60.83      | 3.11           |
| 2017/01/30 03:59 | 1.46       | 17.01      | 0.87           |
| 2017/01/30 04:14 | 1.44       | 2.85       | 0.15           |
| 2017/01/30 04:29 | 1.43       | 1.87       | 0.10           |
| 2017/01/30 04:44 | 1.43       | 1.87       | 0.10           |
| 2017/01/30 04:59 | 1.43       | 1.87       | 0.10           |
| 2017/01/30 05:14 | 1.41       | 1.87       | 0.10           |
| 2017/01/30 05:29 | 1.43       | 1.87       | 0.10           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 05:44 | 1.44       | 1.94       | 0.10           |
| 2017/01/30 05:59 | 1.47       | 1.94       | 0.10           |
| 2017/01/30 06:14 | 1.82       | 4.58       | 0.17           |
| 2017/01/30 06:29 | 1.84       | 9.44       | 0.34           |
| 2017/01/30 06:44 | 1.84       | 9.44       | 0.34           |
| 2017/01/30 06:59 | 1.84       | 9.44       | 0.34           |
| 2017/01/30 07:14 | 1.84       | 9.44       | 0.34           |
| 2017/01/30 07:29 | 1.84       | 9.44       | 0.34           |
| 2017/01/30 07:44 | 2.09       | 14.44      | 0.44           |
| 2017/01/30 07:59 | 2.09       | 15.28      | 0.47           |
| 2017/01/30 08:14 | 2.64       | 20.28      | 0.45           |
| 2017/01/30 08:29 | 2.64       | 19.93      | 0.44           |
| 2017/01/30 08:44 | 2.64       | 19.93      | 0.44           |
| 2017/01/30 08:59 | 2.44       | 16.46      | 0.41           |
| 2017/01/30 09:14 | 2.14       | 11.87      | 0.35           |
| 2017/01/30 09:29 | 2.14       | 11.87      | 0.35           |
| 2017/01/30 09:44 | 2.12       | 11.74      | 0.35           |
| 2017/01/30 09:59 | 1.79       | 9.24       | 0.35           |
| 2017/01/30 10:14 | 1.76       | 10.35      | 0.40           |
| 2017/01/30 10:29 | 1.76       | 10.97      | 0.43           |
| 2017/01/30 10:44 | 1.79       | 11.74      | 0.45           |
| 2017/01/30 10:59 | 2.00       | 15.42      | 0.51           |
| 2017/01/30 11:14 | 2.03       | 15.97      | 0.51           |
| 2017/01/30 11:29 | 2.05       | 16.74      | 0.53           |
| 2017/01/30 11:44 | 2.05       | 16.74      | 0.53           |
| 2017/01/30 11:59 | 2.28       | 21.39      | 0.58           |
| 2017/01/30 12:14 | 2.28       | 21.39      | 0.58           |
| 2017/01/30 12:29 | 2.28       | 37.15      | 1.01           |
| 2017/01/30 12:44 | 2.01       | 77.36      | 2.51           |
| 2017/01/30 12:59 | 2.01       | 77.36      | 2.51           |
| 2017/01/30 13:14 | 1.98       | 63.68      | 2.10           |
| 2017/01/30 13:29 | 1.98       | 68.96      | 2.28           |
| 2017/01/30 13:44 | 1.93       | 70.56      | 2.43           |
| 2017/01/30 13:59 | 1.82       | 60.90      | 2.28           |
| 2017/01/30 14:14 | 1.82       | 60.90      | 2.28           |
| 2017/01/30 14:29 | 1.93       | 70.56      | 2.43           |
| 2017/01/30 14:44 | 2.08       | 83.68      | 2.58           |
| 2017/01/30 14:59 | 2.08       | 83.68      | 2.58           |
| 2017/01/30 15:14 | 2.08       | 83.68      | 2.58           |
| 2017/01/30 15:29 | 2.05       | 116.04     | 3.66           |
| 2017/01/30 15:44 | 1.89       | 147.01     | 5.21           |
| 2017/01/30 15:59 | 1.89       | 169.86     | 6.02           |
| 2017/01/30 16:14 | 2.05       | 189.58     | 5.96           |
| 2017/01/30 16:29 | 2.12       | 220.62     | 6.63           |
| 2017/01/30 16:44 | 2.14       | 202.43     | 6.02           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 16:59 | 2.33       | 228.61     | 6.02           |
| 2017/01/30 17:14 | 2.33       | 226.39     | 5.96           |
| 2017/01/30 17:29 | 2.33       | 7.08       | 0.19           |
| 2017/01/30 17:44 | 2.15       | 6.32       | 0.19           |
| 2017/01/30 17:59 | 2.15       | 6.32       | 0.19           |
| 2017/01/30 18:14 | 2.15       | 30.28      | 0.89           |
| 2017/01/30 18:29 | 2.22       | 32.78      | 0.92           |
| 2017/01/30 18:44 | 2.22       | 32.78      | 0.92           |
| 2017/01/30 18:59 | 2.22       | 32.78      | 0.92           |
| 2017/01/30 19:14 | 1.91       | 22.64      | 0.79           |
| 2017/01/30 19:29 | 1.87       | 21.18      | 0.76           |
| 2017/01/30 19:44 | 1.86       | 20.83      | 0.75           |
| 2017/01/30 19:59 | 1.86       | 20.83      | 0.75           |
| 2017/01/30 20:14 | 1.86       | 20.83      | 0.75           |
| 2017/01/30 20:29 | 1.87       | 9.17       | 0.33           |
| 2017/01/30 20:44 | 2.04       | 3.12       | 0.10           |
| 2017/01/30 20:59 | 2.07       | 3.19       | 0.10           |
| 2017/01/30 21:14 | 2.07       | 3.19       | 0.10           |
| 2017/01/30 21:29 | 2.07       | 3.19       | 0.10           |
| 2017/01/30 21:44 | 2.04       | 3.12       | 0.10           |
| 2017/01/30 21:59 | 1.86       | 2.78       | 0.10           |
| 2017/01/30 22:14 | 1.86       | 2.78       | 0.10           |
| 2017/01/30 22:29 | 1.62       | 2.29       | 0.10           |
| 2017/01/30 22:44 | 1.61       | 2.22       | 0.10           |
| 2017/01/30 22:59 | 1.61       | 2.22       | 0.10           |
| 2017/01/30 23:14 | 1.54       | 2.08       | 0.10           |
| 2017/01/30 23:29 | 1.54       | 37.15      | 1.76           |
| 2017/01/30 23:44 | 1.51       | 104.24     | 5.07           |
| 2017/01/30 23:59 | 1.48       | 97.85      | 4.89           |
| 2017/01/31 00:14 | 1.48       | 96.46      | 4.82           |
| 2017/01/31 00:29 | 1.44       | 92.08      | 4.79           |
| 2017/01/31 00:44 | 1.44       | 93.96      | 4.89           |
| 2017/01/31 00:59 | 1.43       | 92.15      | 4.86           |
| 2017/01/31 01:14 | 1.43       | 92.15      | 4.86           |
| 2017/01/31 01:29 | 1.53       | 108.96     | 5.23           |
| 2017/01/31 01:44 | 1.55       | 113.06     | 5.29           |
| 2017/01/31 01:59 | 1.75       | 150.49     | 5.95           |
| 2017/01/31 02:14 | 1.75       | 150.49     | 5.95           |
| 2017/01/31 02:29 | 1.76       | 152.22     | 5.95           |
| 2017/01/31 02:44 | 1.82       | 159.10     | 5.95           |
| 2017/01/31 02:59 | 1.76       | 6.46       | 0.25           |
| 2017/01/31 03:14 | 1.83       | 6.53       | 0.24           |
| 2017/01/31 03:29 | 1.83       | 6.25       | 0.23           |
| 2017/01/31 03:44 | 1.83       | 6.25       | 0.23           |
| 2017/01/31 03:59 | 1.80       | 5.97       | 0.23           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 04:14 | 1.80       | 5.97       | 0.23           |
| 2017/01/31 04:29 | 1.59       | 4.44       | 0.20           |
| 2017/01/31 04:44 | 1.43       | 3.47       | 0.18           |
| 2017/01/31 04:59 | 1.41       | 3.33       | 0.18           |
| 2017/01/31 05:14 | 1.41       | 1.87       | 0.10           |
| 2017/01/31 05:29 | 1.41       | 1.87       | 0.10           |
| 2017/01/31 05:44 | 1.41       | 1.87       | 0.10           |
| 2017/01/31 05:59 | 1.40       | 1.87       | 0.10           |
| 2017/01/31 06:14 | 1.41       | 1.87       | 0.10           |
| 2017/01/31 06:29 | 1.43       | 1.87       | 0.10           |
| 2017/01/31 06:44 | 1.43       | 1.87       | 0.10           |
| 2017/01/31 06:59 | 1.44       | 1.94       | 0.10           |
| 2017/01/31 07:14 | 1.44       | 64.65      | 3.37           |
| 2017/01/31 07:29 | 1.47       | 118.82     | 6.02           |
| 2017/01/31 07:44 | 1.78       | 206.53     | 7.98           |
| 2017/01/31 07:59 | 1.82       | 196.11     | 7.34           |
| 2017/01/31 08:14 | 2.08       | 227.01     | 7.01           |
| 2017/01/31 08:29 | 2.08       | 227.01     | 7.01           |
| 2017/01/31 08:44 | 2.08       | 227.01     | 7.01           |
| 2017/01/31 08:59 | 2.08       | 227.01     | 7.01           |
| 2017/01/31 09:14 | 1.87       | 173.61     | 6.22           |
| 2017/01/31 09:29 | 1.84       | 159.86     | 5.85           |
| 2017/01/31 09:44 | 1.87       | 163.33     | 5.85           |
| 2017/01/31 09:59 | 1.87       | 152.85     | 5.48           |
| 2017/01/31 10:14 | 1.87       | 143.06     | 5.13           |
| 2017/01/31 10:29 | 1.96       | 134.37     | 4.53           |
| 2017/01/31 10:44 | 2.03       | 45.90      | 1.47           |
| 2017/01/31 10:59 | 2.03       | 14.31      | 0.46           |
| 2017/01/31 11:14 | 2.09       | 14.93      | 0.46           |
| 2017/01/31 11:29 | 2.19       | 15.83      | 0.45           |
| 2017/01/31 11:44 | 2.09       | 14.17      | 0.43           |
| 2017/01/31 11:59 | 1.97       | 12.15      | 0.40           |
| 2017/01/31 12:14 | 1.97       | 12.15      | 0.40           |
| 2017/01/31 12:29 | 1.97       | 12.15      | 0.40           |
| 2017/01/31 12:44 | 1.93       | 11.74      | 0.40           |
| 2017/01/31 12:59 | 1.93       | 112.99     | 3.89           |
| 2017/01/31 13:14 | 1.79       | 103.68     | 3.96           |
| 2017/01/31 13:29 | 1.72       | 97.99      | 3.96           |
| 2017/01/31 13:44 | 1.72       | 97.99      | 3.96           |
| 2017/01/31 13:59 | 1.79       | 108.68     | 4.16           |
| 2017/01/31 14:14 | 1.80       | 110.49     | 4.18           |
| 2017/01/31 14:29 | 1.80       | 110.49     | 4.18           |
| 2017/01/31 14:44 | 1.98       | 139.17     | 4.60           |
| 2017/01/31 14:59 | 1.98       | 139.17     | 4.60           |
| 2017/01/31 15:14 | 1.80       | 119.44     | 4.52           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 15:29 | 1.80       | 119.44     | 4.52           |
| 2017/01/31 15:44 | 1.80       | 119.44     | 4.52           |
| 2017/01/31 15:59 | 1.76       | 112.57     | 4.40           |
| 2017/01/31 16:14 | 1.76       | 112.57     | 4.40           |
| 2017/01/31 16:29 | 1.89       | 132.85     | 4.71           |
| 2017/01/31 16:44 | 1.76       | 112.57     | 4.40           |
| 2017/01/31 16:59 | 1.76       | 112.57     | 4.40           |
| 2017/01/31 17:14 | 1.89       | 132.85     | 4.71           |
| 2017/01/31 17:29 | 1.78       | 58.40      | 2.25           |
| 2017/01/31 17:44 | 1.76       | 23.75      | 0.93           |
| 2017/01/31 17:59 | 1.76       | 23.75      | 0.93           |
| 2017/01/31 18:14 | 1.78       | 11.94      | 0.46           |
| 2017/01/31 18:29 | 1.78       | 2.57       | 0.10           |
| 2017/01/31 18:44 | 1.76       | 2.57       | 0.10           |
| 2017/01/31 18:59 | 1.82       | 2.71       | 0.10           |
| 2017/01/31 19:14 | 1.86       | 2.78       | 0.10           |
| 2017/01/31 19:29 | 1.87       | 2.78       | 0.10           |
| 2017/01/31 19:44 | 1.87       | 2.78       | 0.10           |
| 2017/01/31 19:59 | 1.87       | 2.78       | 0.10           |
| 2017/01/31 20:14 | 1.59       | 2.22       | 0.10           |
| 2017/01/31 20:29 | 1.59       | 2.22       | 0.10           |
| 2017/01/31 20:44 | 1.59       | 2.22       | 0.10           |
| 2017/01/31 20:59 | 1.86       | 2.78       | 0.10           |
| 2017/01/31 21:14 | 1.86       | 2.78       | 0.10           |
| 2017/01/31 21:29 | 1.86       | 2.78       | 0.10           |
| 2017/01/31 21:44 | 1.84       | 2.71       | 0.10           |
| 2017/01/31 21:59 | 1.72       | 2.50       | 0.10           |
| 2017/01/31 22:14 | 1.65       | 2.36       | 0.10           |
| 2017/01/31 22:29 | 1.65       | 2.36       | 0.10           |
| 2017/01/31 22:44 | 1.72       | 2.50       | 0.10           |
| 2017/01/31 22:59 | 1.82       | 2.71       | 0.10           |
| 2017/01/31 23:14 | 1.82       | 2.71       | 0.10           |
| 2017/01/31 23:29 | 1.82       | 2.71       | 0.10           |
| 2017/01/31 23:44 | 1.82       | 2.71       | 0.10           |
| 2017/01/31 23:59 | 1.79       | 2.64       | 0.10           |
| 2017/02/01 00:14 | 1.54       | 2.08       | 0.10           |
| 2017/02/01 00:29 | 1.53       | 2.08       | 0.10           |
| 2017/02/01 00:44 | 1.53       | 2.08       | 0.10           |
| 2017/02/01 00:59 | 1.53       | 2.08       | 0.10           |
| 2017/02/01 01:14 | 1.58       | 2.22       | 0.10           |
| 2017/02/01 01:29 | 1.94       | 2.92       | 0.10           |
| 2017/02/01 01:44 | 2.05       | 3.19       | 0.10           |
| 2017/02/01 01:59 | 2.05       | 3.19       | 0.10           |
| 2017/02/01 02:14 | 1.94       | 2.92       | 0.10           |
| 2017/02/01 02:29 | 1.59       | 2.22       | 0.10           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 02:44 | 1.54       | 2.08       | 0.10           |
| 2017/02/01 02:59 | 1.50       | 2.01       | 0.10           |
| 2017/02/01 03:14 | 1.47       | 1.94       | 0.10           |
| 2017/02/01 03:29 | 1.47       | 1.94       | 0.10           |
| 2017/02/01 03:44 | 1.47       | 1.94       | 0.10           |
| 2017/02/01 03:59 | 1.47       | 1.94       | 0.10           |
| 2017/02/01 04:14 | 1.47       | 1.94       | 0.10           |
| 2017/02/01 04:29 | 1.48       | 2.01       | 0.10           |
| 2017/02/01 04:44 | 1.48       | 2.01       | 0.10           |
| 2017/02/01 04:59 | 1.48       | 2.01       | 0.10           |
| 2017/02/01 05:14 | 1.47       | 1.94       | 0.10           |
| 2017/02/01 05:29 | 1.47       | 1.94       | 0.10           |
| 2017/02/01 05:44 | 1.47       | 1.94       | 0.10           |
| 2017/02/01 05:59 | 1.48       | 2.01       | 0.10           |
| 2017/02/01 06:14 | 1.73       | 2.50       | 0.10           |
| 2017/02/01 06:29 | 1.75       | 2.57       | 0.10           |
| 2017/02/01 06:44 | 1.80       | 2.64       | 0.10           |
| 2017/02/01 06:59 | 1.80       | 2.64       | 0.10           |
| 2017/02/01 07:14 | 1.80       | 2.64       | 0.10           |
| 2017/02/01 07:29 | 1.83       | 2.71       | 0.10           |
| 2017/02/01 07:44 | 2.00       | 3.06       | 0.10           |
| 2017/02/01 07:59 | 1.98       | 2.99       | 0.10           |
| 2017/02/01 08:14 | 1.98       | 2.99       | 0.10           |
| 2017/02/01 08:29 | 1.98       | 2.99       | 0.10           |
| 2017/02/01 08:44 | 1.87       | 2.78       | 0.10           |
| 2017/02/01 08:59 | 1.87       | 2.78       | 0.10           |
| 2017/02/01 09:14 | 1.87       | 2.78       | 0.10           |
| 2017/02/01 09:29 | 2.18       | 3.47       | 0.10           |
| 2017/02/01 09:44 | 2.19       | 3.47       | 0.10           |
| 2017/02/01 09:59 | 2.26       | 3.61       | 0.10           |
| 2017/02/01 10:14 | 2.26       | 3.61       | 0.10           |
| 2017/02/01 10:29 | 2.18       | 3.47       | 0.10           |
| 2017/02/01 10:44 | 2.08       | 3.26       | 0.10           |
| 2017/02/01 10:59 | 1.98       | 2.99       | 0.10           |
| 2017/02/01 11:14 | 1.98       | 9.93       | 0.33           |
| 2017/02/01 11:29 | 2.08       | 9.58       | 0.30           |
| 2017/02/01 11:44 | 2.16       | 22.22      | 0.65           |
| 2017/02/01 11:59 | 2.16       | 24.93      | 0.73           |
| 2017/02/01 12:14 | 2.39       | 25.49      | 0.65           |
| 2017/02/01 12:29 | 2.16       | 24.93      | 0.73           |
| 2017/02/01 12:44 | 2.16       | 27.71      | 0.81           |
| 2017/02/01 12:59 | 2.41       | 138.33     | 3.47           |
| 2017/02/01 13:14 | 2.46       | 160.56     | 3.93           |
| 2017/02/01 13:29 | 2.37       | 173.61     | 4.46           |
| 2017/02/01 13:44 | 2.37       | 173.61     | 4.46           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 13:59 | 2.37       | 173.61     | 4.46           |
| 2017/02/01 14:14 | 1.78       | 84.51      | 3.27           |
| 2017/02/01 14:29 | 1.78       | 84.51      | 3.27           |
| 2017/02/01 14:44 | 1.73       | 79.79      | 3.19           |
| 2017/02/01 14:59 | 1.69       | 77.08      | 3.19           |
| 2017/02/01 15:14 | 1.69       | 80.14      | 3.32           |
| 2017/02/01 15:29 | 1.76       | 106.53     | 4.16           |
| 2017/02/01 15:44 | 1.76       | 110.62     | 4.32           |
| 2017/02/01 15:59 | 1.76       | 110.62     | 4.32           |
| 2017/02/01 16:14 | 1.89       | 131.74     | 4.67           |
| 2017/02/01 16:29 | 1.96       | 146.11     | 4.92           |
| 2017/02/01 16:44 | 1.96       | 148.06     | 4.99           |
| 2017/02/01 16:59 | 1.96       | 148.06     | 4.99           |
| 2017/02/01 17:14 | 1.82       | 131.60     | 4.92           |
| 2017/02/01 17:29 | 1.79       | 127.15     | 4.86           |
| 2017/02/01 17:44 | 1.79       | 19.17      | 0.73           |
| 2017/02/01 17:59 | 1.82       | 19.58      | 0.73           |
| 2017/02/01 18:14 | 1.84       | 20.00      | 0.73           |
| 2017/02/01 18:29 | 1.87       | 20.42      | 0.73           |
| 2017/02/01 18:44 | 1.98       | 22.15      | 0.73           |
| 2017/02/01 18:59 | 2.19       | 20.62      | 0.59           |
| 2017/02/01 19:14 | 2.19       | 19.24      | 0.55           |
| 2017/02/01 19:29 | 2.19       | 19.17      | 0.55           |
| 2017/02/01 19:44 | 2.00       | 15.14      | 0.50           |
| 2017/02/01 19:59 | 1.89       | 13.19      | 0.47           |
| 2017/02/01 20:14 | 1.89       | 13.19      | 0.47           |
| 2017/02/01 20:29 | 1.89       | 13.19      | 0.47           |
| 2017/02/01 20:44 | 2.04       | 15.83      | 0.50           |
| 2017/02/01 20:59 | 2.07       | 16.39      | 0.51           |
| 2017/02/01 21:14 | 2.07       | 3.19       | 0.10           |
| 2017/02/01 21:29 | 2.04       | 3.12       | 0.10           |
| 2017/02/01 21:44 | 1.82       | 2.71       | 0.10           |
| 2017/02/01 21:59 | 1.82       | 2.71       | 0.10           |
| 2017/02/01 22:14 | 1.82       | 2.71       | 0.10           |
| 2017/02/01 22:29 | 2.04       | 3.12       | 0.10           |
| 2017/02/01 22:44 | 2.04       | 3.12       | 0.10           |
| 2017/02/01 22:59 | 2.04       | 3.12       | 0.10           |
| 2017/02/01 23:14 | 1.96       | 2.99       | 0.10           |
| 2017/02/01 23:29 | 1.96       | 2.99       | 0.10           |
| 2017/02/01 23:44 | 1.89       | 2.85       | 0.10           |
| 2017/02/01 23:59 | 1.86       | 2.78       | 0.10           |
| 2017/02/02 00:14 | 1.73       | 2.50       | 0.10           |
| 2017/02/02 00:29 | 1.61       | 2.22       | 0.10           |
| 2017/02/02 00:44 | 1.61       | 2.22       | 0.10           |
| 2017/02/02 00:59 | 1.61       | 2.22       | 0.10           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 01:14 | 1.82       | 2.71       | 0.10           |
| 2017/02/02 01:29 | 1.98       | 2.99       | 0.10           |
| 2017/02/02 01:44 | 1.98       | 2.99       | 0.10           |
| 2017/02/02 01:59 | 1.82       | 2.71       | 0.10           |
| 2017/02/02 02:14 | 1.71       | 2.43       | 0.10           |
| 2017/02/02 02:29 | 1.66       | 2.36       | 0.10           |
| 2017/02/02 02:44 | 1.53       | 2.08       | 0.10           |
| 2017/02/02 02:59 | 1.46       | 1.94       | 0.10           |
| 2017/02/02 03:14 | 1.46       | 1.94       | 0.10           |
| 2017/02/02 03:29 | 1.43       | 1.87       | 0.10           |
| 2017/02/02 03:44 | 1.43       | 1.87       | 0.10           |
| 2017/02/02 03:59 | 1.43       | 1.87       | 0.10           |
| 2017/02/02 04:14 | 1.43       | 1.87       | 0.10           |
| 2017/02/02 04:29 | 1.43       | 1.87       | 0.10           |
| 2017/02/02 04:44 | 1.43       | 1.87       | 0.10           |
| 2017/02/02 04:59 | 1.44       | 1.94       | 0.10           |
| 2017/02/02 05:14 | 1.46       | 1.94       | 0.10           |
| 2017/02/02 05:29 | 1.46       | 1.94       | 0.10           |
| 2017/02/02 05:44 | 1.48       | 2.01       | 0.10           |
| 2017/02/02 05:59 | 1.48       | 2.01       | 0.10           |
| 2017/02/02 06:14 | 1.55       | 2.15       | 0.10           |
| 2017/02/02 06:29 | 1.54       | 2.08       | 0.10           |
| 2017/02/02 06:44 | 1.54       | 2.08       | 0.10           |
| 2017/02/02 06:59 | 1.64       | 2.29       | 0.10           |
| 2017/02/02 07:14 | 1.64       | 2.29       | 0.10           |
| 2017/02/02 07:29 | 1.64       | 2.29       | 0.10           |
| 2017/02/02 07:44 | 1.66       | 2.36       | 0.10           |
| 2017/02/02 07:59 | 1.71       | 2.43       | 0.10           |
| 2017/02/02 08:14 | 1.71       | 2.43       | 0.10           |
| 2017/02/02 08:29 | 1.71       | 2.43       | 0.10           |
| 2017/02/02 08:44 | 2.04       | 9.86       | 0.31           |
| 2017/02/02 08:59 | 2.04       | 9.86       | 0.31           |
| 2017/02/02 09:14 | 2.04       | 10.76      | 0.34           |
| 2017/02/02 09:29 | 2.04       | 9.65       | 0.31           |
| 2017/02/02 09:44 | 2.04       | 9.86       | 0.31           |
| 2017/02/02 09:59 | 2.04       | 9.86       | 0.31           |
| 2017/02/02 10:14 | 2.03       | 10.62      | 0.34           |
| 2017/02/02 10:29 | 2.00       | 150.14     | 4.91           |
| 2017/02/02 10:44 | 1.86       | 150.28     | 5.44           |
| 2017/02/02 10:59 | 2.03       | 169.65     | 5.44           |
| 2017/02/02 11:14 | 1.86       | 135.56     | 4.91           |
| 2017/02/02 11:29 | 1.79       | 20.49      | 0.78           |
| 2017/02/02 11:44 | 1.79       | 16.46      | 0.63           |
| 2017/02/02 11:59 | 1.75       | 15.49      | 0.61           |
| 2017/02/02 12:14 | 1.75       | 15.49      | 0.61           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 12:29 | 1.79       | 16.46      | 0.63           |
| 2017/02/02 12:44 | 1.78       | 16.32      | 0.63           |
| 2017/02/02 12:59 | 1.78       | 16.32      | 0.63           |
| 2017/02/02 13:14 | 1.78       | 16.32      | 0.63           |
| 2017/02/02 13:29 | 1.65       | 13.68      | 0.59           |
| 2017/02/02 13:44 | 1.65       | 13.68      | 0.59           |
| 2017/02/02 13:59 | 1.65       | 13.68      | 0.59           |
| 2017/02/02 14:14 | 1.90       | 78.89      | 2.77           |
| 2017/02/02 14:29 | 1.90       | 78.89      | 2.77           |
| 2017/02/02 14:44 | 1.93       | 169.65     | 5.83           |
| 2017/02/02 14:59 | 2.07       | 189.10     | 5.89           |
| 2017/02/02 15:14 | 2.07       | 184.24     | 5.74           |
| 2017/02/02 15:29 | 2.04       | 6.04       | 0.19           |
| 2017/02/02 15:44 | 2.07       | 184.24     | 5.74           |
| 2017/02/02 15:59 | 2.04       | 7.22       | 0.23           |
| 2017/02/02 16:14 | 1.93       | 5.62       | 0.19           |
| 2017/02/02 16:29 | 1.71       | 4.10       | 0.17           |
| 2017/02/02 16:44 | 1.71       | 4.10       | 0.17           |
| 2017/02/02 16:59 | 1.71       | 4.10       | 0.17           |
| 2017/02/02 17:14 | 1.79       | 4.65       | 0.18           |
| 2017/02/02 17:29 | 1.79       | 4.65       | 0.18           |
| 2017/02/02 17:44 | 1.79       | 4.65       | 0.18           |
| 2017/02/02 17:59 | 1.79       | 4.65       | 0.18           |
| 2017/02/02 18:14 | 1.79       | 2.64       | 0.10           |
| 2017/02/02 18:29 | 1.79       | 2.64       | 0.10           |
| 2017/02/02 18:44 | 1.93       | 2.92       | 0.10           |
| 2017/02/02 18:59 | 2.01       | 3.06       | 0.10           |
| 2017/02/02 19:14 | 2.01       | 3.06       | 0.10           |
| 2017/02/02 19:29 | 2.01       | 3.06       | 0.10           |
| 2017/02/02 19:44 | 1.93       | 2.92       | 0.10           |
| 2017/02/02 19:59 | 1.93       | 2.92       | 0.10           |
| 2017/02/02 20:14 | 1.80       | 2.64       | 0.10           |
| 2017/02/02 20:29 | 1.80       | 2.64       | 0.10           |
| 2017/02/02 20:44 | 1.80       | 2.64       | 0.10           |
| 2017/02/02 20:59 | 1.76       | 2.57       | 0.10           |
| 2017/02/02 21:14 | 1.61       | 2.22       | 0.10           |
| 2017/02/02 21:29 | 1.61       | 2.22       | 0.10           |
| 2017/02/02 21:44 | 1.61       | 2.22       | 0.10           |
| 2017/02/02 21:59 | 1.98       | 2.99       | 0.10           |
| 2017/02/02 22:14 | 1.98       | 2.99       | 0.10           |
| 2017/02/02 22:29 | 1.98       | 10.90      | 0.36           |
| 2017/02/02 22:44 | 1.98       | 27.43      | 0.91           |
| 2017/02/02 22:59 | 1.98       | 28.47      | 0.94           |
| 2017/02/02 23:14 | 2.00       | 29.72      | 0.97           |
| 2017/02/02 23:29 | 2.00       | 26.60      | 0.87           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 23:44 | 2.00       | 28.82      | 0.94           |
| 2017/02/02 23:59 | 2.07       | 30.21      | 0.94           |
| 2017/02/03 00:14 | 2.04       | 27.36      | 0.87           |
| 2017/02/03 00:29 | 2.04       | 27.36      | 0.87           |
| 2017/02/03 00:44 | 2.04       | 24.37      | 0.77           |
| 2017/02/03 00:59 | 2.04       | 22.22      | 0.71           |
| 2017/02/03 01:14 | 2.04       | 22.22      | 0.71           |
| 2017/02/03 01:29 | 2.08       | 23.40      | 0.72           |
| 2017/02/03 01:44 | 2.08       | 23.40      | 0.72           |
| 2017/02/03 01:59 | 2.09       | 23.75      | 0.73           |
| 2017/02/03 02:14 | 2.11       | 24.10      | 0.73           |
| 2017/02/03 02:29 | 2.11       | 24.10      | 0.73           |
| 2017/02/03 02:44 | 2.15       | 9.51       | 0.28           |
| 2017/02/03 02:59 | 2.15       | 3.40       | 0.10           |
| 2017/02/03 03:14 | 2.30       | 3.75       | 0.10           |
| 2017/02/03 03:29 | 2.32       | 3.75       | 0.10           |
| 2017/02/03 03:44 | 2.32       | 3.75       | 0.10           |
| 2017/02/03 03:59 | 2.32       | 3.75       | 0.10           |
| 2017/02/03 04:14 | 2.15       | 21.67      | 0.64           |
| 2017/02/03 04:29 | 2.15       | 23.26      | 0.69           |
| 2017/02/03 04:44 | 2.15       | 24.51      | 0.72           |
| 2017/02/03 04:59 | 2.15       | 16.32      | 0.48           |
| 2017/02/03 05:14 | 2.15       | 21.67      | 0.64           |
| 2017/02/03 05:29 | 1.65       | 13.19      | 0.56           |
| 2017/02/03 05:44 | 1.65       | 13.19      | 0.56           |
| 2017/02/03 05:59 | 1.65       | 13.19      | 0.56           |
| 2017/02/03 06:14 | 1.97       | 22.99      | 0.77           |
| 2017/02/03 06:29 | 1.97       | 22.99      | 0.77           |
| 2017/02/03 06:44 | 1.97       | 24.58      | 0.82           |
| 2017/02/03 06:59 | 1.69       | 19.79      | 0.82           |
| 2017/02/03 07:14 | 1.69       | 19.79      | 0.82           |
| 2017/02/03 07:29 | 1.69       | 19.79      | 0.82           |
| 2017/02/03 07:44 | 1.78       | 21.74      | 0.84           |
| 2017/02/03 07:59 | 1.93       | 24.51      | 0.84           |
| 2017/02/03 08:14 | 2.08       | 27.36      | 0.84           |
| 2017/02/03 08:29 | 2.08       | 27.15      | 0.84           |
| 2017/02/03 08:44 | 2.08       | 26.53      | 0.82           |
| 2017/02/03 08:59 | 2.08       | 26.53      | 0.82           |
| 2017/02/03 09:14 | 2.08       | 24.79      | 0.76           |
| 2017/02/03 09:29 | 1.96       | 22.71      | 0.76           |
| 2017/02/03 09:44 | 1.96       | 22.71      | 0.76           |
| 2017/02/03 09:59 | 1.91       | 24.17      | 0.84           |
| 2017/02/03 10:14 | 1.84       | 23.19      | 0.85           |
| 2017/02/03 10:29 | 1.91       | 25.49      | 0.89           |
| 2017/02/03 10:44 | 1.96       | 26.87      | 0.90           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 10:59 | 2.07       | 28.40      | 0.89           |
| 2017/02/03 11:14 | 2.07       | 27.22      | 0.85           |
| 2017/02/03 11:29 | 2.08       | 20.49      | 0.63           |
| 2017/02/03 11:44 | 2.08       | 20.49      | 0.63           |
| 2017/02/03 11:59 | 2.33       | 24.03      | 0.63           |
| 2017/02/03 12:14 | 2.34       | 24.44      | 0.64           |
| 2017/02/03 12:29 | 2.34       | 24.44      | 0.64           |
| 2017/02/03 12:44 | 2.34       | 24.44      | 0.64           |
| 2017/02/03 12:59 | 2.23       | 21.60      | 0.60           |
| 2017/02/03 13:14 | 2.21       | 20.90      | 0.60           |
| 2017/02/03 13:29 | 1.90       | 16.94      | 0.60           |
| 2017/02/03 13:44 | 1.90       | 17.22      | 0.60           |
| 2017/02/03 13:59 | 1.90       | 23.12      | 0.81           |
| 2017/02/03 14:14 | 1.90       | 28.89      | 1.01           |
| 2017/02/03 14:29 | 1.90       | 29.44      | 1.03           |
| 2017/02/03 14:44 | 2.07       | 139.10     | 4.34           |
| 2017/02/03 14:59 | 1.80       | 122.08     | 4.62           |
| 2017/02/03 15:14 | 1.80       | 125.83     | 4.76           |
| 2017/02/03 15:29 | 1.76       | 118.12     | 4.62           |
| 2017/02/03 15:44 | 1.76       | 118.12     | 4.62           |
| 2017/02/03 15:59 | 1.76       | 118.12     | 4.62           |
| 2017/02/03 16:14 | 1.89       | 139.31     | 4.94           |
| 2017/02/03 16:29 | 1.89       | 139.31     | 4.94           |
| 2017/02/03 16:44 | 2.03       | 165.28     | 5.30           |
| 2017/02/03 16:59 | 2.11       | 89.51      | 2.71           |
| 2017/02/03 17:14 | 2.11       | 89.51      | 2.71           |
| 2017/02/03 17:29 | 2.11       | 54.79      | 1.66           |
| 2017/02/03 17:44 | 2.25       | 32.15      | 0.89           |
| 2017/02/03 17:59 | 2.25       | 32.15      | 0.89           |
| 2017/02/03 18:14 | 1.96       | 16.39      | 0.55           |
| 2017/02/03 18:29 | 1.86       | 10.49      | 0.38           |
| 2017/02/03 18:44 | 1.75       | 5.07       | 0.20           |
| 2017/02/03 18:59 | 1.75       | 5.07       | 0.20           |
| 2017/02/03 19:14 | 1.68       | 11.25      | 0.47           |
| 2017/02/03 19:29 | 1.68       | 11.25      | 0.47           |
| 2017/02/03 19:44 | 1.61       | 48.40      | 2.15           |
| 2017/02/03 19:59 | 1.61       | 48.40      | 2.15           |
| 2017/02/03 20:14 | 1.61       | 130.07     | 5.79           |
| 2017/02/03 20:29 | 1.59       | 113.19     | 5.10           |
| 2017/02/03 20:44 | 1.58       | 123.61     | 5.64           |
| 2017/02/03 20:59 | 1.61       | 148.47     | 6.60           |
| 2017/02/03 21:14 | 1.62       | 131.67     | 5.79           |
| 2017/02/03 21:29 | 1.73       | 156.39     | 6.25           |
| 2017/02/03 21:44 | 1.83       | 178.54     | 6.60           |
| 2017/02/03 21:59 | 1.93       | 203.33     | 6.99           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 22:14 | 1.93       | 203.33     | 6.99           |
| 2017/02/03 22:29 | 1.93       | 203.33     | 6.99           |
| 2017/02/03 22:44 | 1.82       | 176.18     | 6.59           |
| 2017/02/03 22:59 | 1.80       | 88.40      | 3.35           |
| 2017/02/03 23:14 | 1.73       | 22.71      | 0.91           |
| 2017/02/03 23:29 | 1.80       | 11.60      | 0.44           |
| 2017/02/03 23:44 | 1.80       | 11.60      | 0.44           |
| 2017/02/03 23:59 | 1.89       | 2.85       | 0.10           |
| 2017/02/04 00:14 | 1.94       | 2.92       | 0.10           |
| 2017/02/04 00:29 | 1.94       | 2.92       | 0.10           |
| 2017/02/04 00:44 | 1.89       | 2.85       | 0.10           |
| 2017/02/04 00:59 | 1.86       | 2.78       | 0.10           |
| 2017/02/04 01:14 | 1.86       | 2.78       | 0.10           |
| 2017/02/04 01:29 | 1.82       | 2.71       | 0.10           |
| 2017/02/04 01:44 | 1.82       | 2.71       | 0.10           |
| 2017/02/04 01:59 | 1.76       | 2.57       | 0.10           |
| 2017/02/04 02:14 | 1.75       | 2.57       | 0.10           |
| 2017/02/04 02:29 | 1.58       | 2.22       | 0.10           |
| 2017/02/04 02:44 | 1.57       | 2.15       | 0.10           |
| 2017/02/04 02:59 | 1.53       | 2.08       | 0.10           |
| 2017/02/04 03:14 | 1.48       | 2.01       | 0.10           |
| 2017/02/04 03:29 | 1.46       | 1.94       | 0.10           |
| 2017/02/04 03:44 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 03:59 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 04:14 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 04:29 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 04:44 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 04:59 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 05:14 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 05:29 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 05:44 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 05:59 | 1.43       | 1.87       | 0.10           |
| 2017/02/04 06:14 | 1.44       | 1.94       | 0.10           |
| 2017/02/04 06:29 | 1.44       | 1.94       | 0.10           |
| 2017/02/04 06:44 | 1.47       | 1.94       | 0.10           |
| 2017/02/04 06:59 | 1.51       | 2.08       | 0.10           |
| 2017/02/04 07:14 | 1.94       | 2.92       | 0.10           |
| 2017/02/04 07:29 | 1.94       | 2.92       | 0.10           |
| 2017/02/04 07:44 | 1.94       | 2.92       | 0.10           |
| 2017/02/04 07:59 | 1.90       | 2.85       | 0.10           |
| 2017/02/04 08:14 | 1.50       | 2.01       | 0.10           |
| 2017/02/04 08:29 | 1.50       | 2.01       | 0.10           |
| 2017/02/04 08:44 | 1.50       | 2.01       | 0.10           |
| 2017/02/04 08:59 | 1.84       | 2.71       | 0.10           |
| 2017/02/04 09:14 | 1.84       | 2.71       | 0.10           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 09:29 | 1.94       | 8.06       | 0.27           |
| 2017/02/04 09:44 | 2.03       | 8.89       | 0.29           |
| 2017/02/04 09:59 | 2.03       | 7.85       | 0.25           |
| 2017/02/04 10:14 | 1.97       | 6.46       | 0.22           |
| 2017/02/04 10:29 | 1.97       | 8.26       | 0.27           |
| 2017/02/04 10:44 | 1.89       | 8.06       | 0.29           |
| 2017/02/04 10:59 | 1.89       | 53.68      | 1.90           |
| 2017/02/04 11:14 | 1.78       | 49.24      | 1.90           |
| 2017/02/04 11:29 | 1.89       | 53.89      | 1.91           |
| 2017/02/04 11:44 | 1.89       | 53.89      | 1.91           |
| 2017/02/04 11:59 | 1.89       | 53.89      | 1.91           |
| 2017/02/04 12:14 | 1.97       | 62.36      | 2.08           |
| 2017/02/04 12:29 | 1.97       | 70.56      | 2.35           |
| 2017/02/04 12:44 | 1.97       | 89.58      | 2.99           |
| 2017/02/04 12:59 | 1.91       | 86.04      | 2.99           |
| 2017/02/04 13:14 | 1.91       | 86.04      | 2.99           |
| 2017/02/04 13:29 | 1.65       | 59.51      | 2.55           |
| 2017/02/04 13:44 | 1.61       | 55.83      | 2.48           |
| 2017/02/04 13:59 | 1.61       | 55.83      | 2.48           |
| 2017/02/04 14:14 | 1.61       | 55.83      | 2.48           |
| 2017/02/04 14:29 | 1.91       | 85.07      | 2.96           |
| 2017/02/04 14:44 | 2.14       | 110.83     | 3.30           |
| 2017/02/04 14:59 | 2.14       | 110.83     | 3.30           |
| 2017/02/04 15:14 | 2.14       | 110.83     | 3.30           |
| 2017/02/04 15:29 | 1.78       | 67.78      | 2.61           |
| 2017/02/04 15:44 | 1.66       | 52.64      | 2.24           |
| 2017/02/04 15:59 | 1.66       | 52.64      | 2.24           |
| 2017/02/04 16:14 | 1.66       | 52.64      | 2.24           |
| 2017/02/04 16:29 | 1.78       | 54.31      | 2.09           |
| 2017/02/04 16:44 | 1.90       | 53.40      | 1.88           |
| 2017/02/04 16:59 | 1.90       | 38.68      | 1.36           |
| 2017/02/04 17:14 | 1.78       | 33.82      | 1.31           |
| 2017/02/04 17:29 | 1.72       | 38.68      | 1.56           |
| 2017/02/04 17:44 | 1.72       | 38.68      | 1.56           |
| 2017/02/04 17:59 | 1.72       | 38.68      | 1.56           |
| 2017/02/04 18:14 | 1.91       | 142.92     | 4.97           |
| 2017/02/04 18:29 | 1.96       | 150.83     | 5.08           |
| 2017/02/04 18:44 | 1.97       | 154.17     | 5.14           |
| 2017/02/04 18:59 | 1.97       | 154.17     | 5.14           |
| 2017/02/04 19:14 | 2.04       | 168.12     | 5.34           |
| 2017/02/04 19:29 | 2.04       | 168.12     | 5.34           |
| 2017/02/04 19:44 | 2.05       | 170.90     | 5.38           |
| 2017/02/04 19:59 | 2.05       | 170.90     | 5.38           |
| 2017/02/04 20:14 | 2.07       | 173.75     | 5.42           |
| 2017/02/04 20:29 | 2.05       | 167.78     | 5.29           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 20:44 | 1.87       | 145.97     | 5.24           |
| 2017/02/04 20:59 | 1.82       | 139.37     | 5.20           |
| 2017/02/04 21:14 | 1.72       | 126.87     | 5.13           |
| 2017/02/04 21:29 | 1.68       | 121.39     | 5.08           |
| 2017/02/04 21:44 | 1.58       | 114.51     | 5.22           |
| 2017/02/04 21:59 | 1.55       | 107.85     | 5.05           |
| 2017/02/04 22:14 | 1.55       | 127.71     | 5.98           |
| 2017/02/04 22:29 | 1.58       | 114.51     | 5.22           |
| 2017/02/04 22:44 | 1.61       | 119.03     | 5.29           |
| 2017/02/04 22:59 | 1.68       | 132.99     | 5.57           |
| 2017/02/04 23:14 | 1.73       | 143.96     | 5.75           |
| 2017/02/04 23:29 | 1.73       | 143.96     | 5.75           |
| 2017/02/04 23:44 | 1.73       | 143.96     | 5.75           |
| 2017/02/04 23:59 | 1.73       | 143.96     | 5.75           |
| 2017/02/05 00:14 | 1.62       | 59.03      | 2.60           |
| 2017/02/05 00:29 | 1.55       | 19.79      | 0.93           |
| 2017/02/05 00:44 | 1.50       | 4.86       | 0.24           |
| 2017/02/05 00:59 | 1.48       | 2.01       | 0.10           |
| 2017/02/05 01:14 | 1.48       | 2.01       | 0.10           |
| 2017/02/05 01:29 | 1.50       | 2.01       | 0.10           |
| 2017/02/05 01:44 | 1.51       | 2.08       | 0.10           |
| 2017/02/05 01:59 | 1.51       | 2.08       | 0.10           |
| 2017/02/05 02:14 | 1.51       | 2.08       | 0.10           |
| 2017/02/05 02:29 | 1.46       | 1.94       | 0.10           |
| 2017/02/05 02:44 | 1.41       | 1.87       | 0.10           |
| 2017/02/05 02:59 | 1.41       | 1.87       | 0.10           |
| 2017/02/05 03:14 | 1.41       | 1.87       | 0.10           |
| 2017/02/05 03:29 | 1.43       | 1.87       | 0.10           |
| 2017/02/05 03:44 | 1.43       | 1.87       | 0.10           |
| 2017/02/05 03:59 | 1.43       | 1.87       | 0.10           |
| 2017/02/05 04:14 | 1.43       | 1.87       | 0.10           |
| 2017/02/05 04:29 | 1.43       | 1.87       | 0.10           |
| 2017/02/05 04:44 | 1.43       | 1.87       | 0.10           |
| 2017/02/05 04:59 | 1.43       | 1.87       | 0.10           |
| 2017/02/05 05:14 | 1.43       | 1.87       | 0.10           |
| 2017/02/05 05:29 | 1.41       | 1.87       | 0.10           |
| 2017/02/05 05:44 | 1.41       | 1.87       | 0.10           |
| 2017/02/05 05:59 | 1.41       | 1.87       | 0.10           |
| 2017/02/05 06:14 | 1.43       | 1.87       | 0.10           |
| 2017/02/05 06:29 | 1.43       | 33.19      | 1.75           |
| 2017/02/05 06:44 | 1.43       | 95.97      | 5.07           |
| 2017/02/05 06:59 | 1.44       | 104.58     | 5.44           |
| 2017/02/05 07:14 | 1.44       | 101.81     | 5.30           |
| 2017/02/05 07:29 | 1.47       | 101.74     | 5.15           |
| 2017/02/05 07:44 | 1.50       | 107.50     | 5.30           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 07:59 | 1.50       | 107.50     | 5.30           |
| 2017/02/05 08:14 | 1.50       | 107.50     | 5.30           |
| 2017/02/05 08:29 | 1.51       | 109.58     | 5.33           |
| 2017/02/05 08:44 | 1.57       | 118.54     | 5.48           |
| 2017/02/05 08:59 | 2.22       | 275.00     | 7.76           |
| 2017/02/05 09:14 | 2.26       | 287.50     | 7.90           |
| 2017/02/05 09:29 | 2.50       | 171.94     | 4.11           |
| 2017/02/05 09:44 | 2.26       | 55.62      | 1.53           |
| 2017/02/05 09:59 | 2.26       | 55.62      | 1.53           |
| 2017/02/05 10:14 | 2.05       | 29.17      | 0.92           |
| 2017/02/05 10:29 | 1.97       | 19.79      | 0.66           |
| 2017/02/05 10:44 | 1.91       | 16.94      | 0.59           |
| 2017/02/05 10:59 | 1.97       | 16.18      | 0.54           |
| 2017/02/05 11:14 | 2.05       | 19.03      | 0.60           |
| 2017/02/05 11:29 | 2.01       | 17.57      | 0.57           |
| 2017/02/05 11:44 | 2.01       | 17.57      | 0.57           |
| 2017/02/05 11:59 | 2.08       | 17.15      | 0.53           |
| 2017/02/05 12:14 | 2.01       | 16.94      | 0.55           |
| 2017/02/05 12:29 | 1.84       | 14.17      | 0.52           |
| 2017/02/05 12:44 | 1.83       | 14.03      | 0.52           |
| 2017/02/05 12:59 | 1.80       | 12.92      | 0.49           |
| 2017/02/05 13:14 | 1.69       | 12.29      | 0.51           |
| 2017/02/05 13:29 | 1.69       | 12.29      | 0.51           |
| 2017/02/05 13:44 | 1.83       | 15.42      | 0.57           |
| 2017/02/05 13:59 | 1.89       | 17.15      | 0.61           |
| 2017/02/05 14:14 | 1.90       | 20.90      | 0.73           |
| 2017/02/05 14:29 | 1.90       | 19.10      | 0.67           |
| 2017/02/05 14:44 | 1.90       | 20.90      | 0.73           |
| 2017/02/05 14:59 | 1.75       | 17.01      | 0.67           |
| 2017/02/05 15:14 | 1.75       | 18.54      | 0.73           |
| 2017/02/05 15:29 | 1.75       | 18.54      | 0.73           |
| 2017/02/05 15:44 | 1.94       | 25.62      | 0.87           |
| 2017/02/05 15:59 | 1.98       | 27.01      | 0.89           |
| 2017/02/05 16:14 | 2.19       | 34.31      | 0.99           |
| 2017/02/05 16:29 | 2.18       | 33.82      | 0.98           |
| 2017/02/05 16:44 | 2.18       | 33.82      | 0.98           |
| 2017/02/05 16:59 | 2.18       | 33.82      | 0.98           |
| 2017/02/05 17:14 | 2.18       | 33.82      | 0.98           |
| 2017/02/05 17:29 | 2.12       | 21.60      | 0.65           |
| 2017/02/05 17:44 | 2.12       | 21.60      | 0.65           |
| 2017/02/05 17:59 | 1.98       | 14.17      | 0.47           |
| 2017/02/05 18:14 | 1.89       | 6.18       | 0.22           |
| 2017/02/05 18:29 | 1.89       | 6.18       | 0.22           |
| 2017/02/05 18:44 | 1.89       | 8.19       | 0.29           |
| 2017/02/05 18:59 | 1.89       | 7.08       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 19:14 | 1.91       | 7.85       | 0.27           |
| 2017/02/05 19:29 | 1.91       | 7.22       | 0.25           |
| 2017/02/05 19:44 | 1.91       | 7.22       | 0.25           |
| 2017/02/05 19:59 | 1.82       | 6.32       | 0.24           |
| 2017/02/05 20:14 | 1.82       | 6.32       | 0.24           |
| 2017/02/05 20:29 | 1.82       | 6.32       | 0.24           |
| 2017/02/05 20:44 | 1.93       | 7.29       | 0.25           |
| 2017/02/05 20:59 | 2.00       | 7.99       | 0.26           |
| 2017/02/05 21:14 | 2.04       | 8.19       | 0.26           |
| 2017/02/05 21:29 | 2.14       | 8.47       | 0.25           |
| 2017/02/05 21:44 | 2.14       | 4.93       | 0.15           |
| 2017/02/05 21:59 | 2.04       | 4.51       | 0.14           |
| 2017/02/05 22:14 | 1.96       | 3.89       | 0.13           |
| 2017/02/05 22:29 | 1.96       | 3.89       | 0.13           |
| 2017/02/05 22:44 | 1.96       | 3.89       | 0.13           |
| 2017/02/05 22:59 | 1.96       | 3.89       | 0.13           |
| 2017/02/05 23:14 | 2.09       | 4.58       | 0.14           |
| 2017/02/05 23:29 | 2.11       | 4.65       | 0.14           |
| 2017/02/05 23:44 | 2.11       | 4.65       | 0.14           |
| 2017/02/05 23:59 | 2.11       | 3.33       | 0.10           |
| 2017/02/06 00:14 | 2.11       | 3.33       | 0.10           |
| 2017/02/06 00:29 | 2.08       | 3.26       | 0.10           |
| 2017/02/06 00:44 | 1.94       | 2.92       | 0.10           |
| 2017/02/06 00:59 | 1.87       | 2.78       | 0.10           |
| 2017/02/06 01:14 | 1.51       | 2.08       | 0.10           |
| 2017/02/06 01:29 | 1.51       | 2.08       | 0.10           |
| 2017/02/06 01:44 | 1.50       | 2.01       | 0.10           |
| 2017/02/06 01:59 | 1.48       | 2.01       | 0.10           |
| 2017/02/06 02:14 | 1.48       | 2.01       | 0.10           |
| 2017/02/06 02:29 | 1.47       | 1.94       | 0.10           |
| 2017/02/06 02:44 | 1.46       | 1.94       | 0.10           |
| 2017/02/06 02:59 | 1.47       | 12.57      | 0.64           |
| 2017/02/06 03:14 | 1.47       | 12.57      | 0.64           |
| 2017/02/06 03:29 | 1.47       | 15.21      | 0.77           |
| 2017/02/06 03:44 | 1.47       | 16.60      | 0.84           |
| 2017/02/06 03:59 | 1.82       | 20.42      | 0.76           |
| 2017/02/06 04:14 | 1.82       | 20.56      | 0.77           |
| 2017/02/06 04:29 | 1.86       | 21.81      | 0.79           |
| 2017/02/06 04:44 | 1.87       | 23.06      | 0.83           |
| 2017/02/06 04:59 | 1.87       | 23.06      | 0.83           |
| 2017/02/06 05:14 | 1.80       | 21.87      | 0.83           |
| 2017/02/06 05:29 | 1.76       | 21.18      | 0.83           |
| 2017/02/06 05:44 | 1.68       | 18.06      | 0.76           |
| 2017/02/06 05:59 | 1.68       | 18.06      | 0.76           |
| 2017/02/06 06:14 | 1.68       | 18.06      | 0.76           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 06:29 | 2.21       | 30.69      | 0.87           |
| 2017/02/06 06:44 | 2.32       | 35.00      | 0.93           |
| 2017/02/06 06:59 | 2.32       | 35.00      | 0.93           |
| 2017/02/06 07:14 | 2.37       | 36.18      | 0.93           |
| 2017/02/06 07:29 | 2.40       | 36.74      | 0.93           |
| 2017/02/06 07:44 | 2.40       | 36.74      | 0.93           |
| 2017/02/06 07:59 | 2.40       | 38.40      | 0.97           |
| 2017/02/06 08:14 | 2.40       | 38.40      | 0.97           |
| 2017/02/06 08:29 | 2.40       | 38.40      | 0.97           |
| 2017/02/06 08:44 | 2.32       | 32.29      | 0.86           |
| 2017/02/06 08:59 | 2.29       | 31.74      | 0.86           |
| 2017/02/06 09:14 | 2.29       | 31.74      | 0.86           |
| 2017/02/06 09:29 | 2.29       | 33.19      | 0.90           |
| 2017/02/06 09:44 | 2.29       | 34.37      | 0.93           |
| 2017/02/06 09:59 | 2.26       | 33.82      | 0.93           |
| 2017/02/06 10:14 | 2.26       | 34.24      | 0.94           |
| 2017/02/06 10:29 | 2.26       | 34.24      | 0.94           |
| 2017/02/06 10:44 | 2.26       | 32.99      | 0.91           |
| 2017/02/06 10:59 | 2.19       | 29.17      | 0.84           |
| 2017/02/06 11:14 | 2.15       | 28.19      | 0.83           |
| 2017/02/06 11:29 | 2.15       | 18.19      | 0.54           |
| 2017/02/06 11:44 | 2.15       | 17.57      | 0.52           |
| 2017/02/06 11:59 | 1.97       | 13.89      | 0.46           |
| 2017/02/06 12:14 | 1.97       | 13.89      | 0.46           |
| 2017/02/06 12:29 | 2.08       | 16.04      | 0.49           |
| 2017/02/06 12:44 | 1.97       | 13.89      | 0.46           |
| 2017/02/06 12:59 | 2.04       | 15.28      | 0.49           |
| 2017/02/06 13:14 | 2.04       | 15.56      | 0.49           |
| 2017/02/06 13:29 | 2.04       | 15.56      | 0.49           |
| 2017/02/06 13:44 | 1.90       | 147.36     | 5.17           |
| 2017/02/06 13:59 | 2.04       | 190.21     | 6.04           |
| 2017/02/06 14:14 | 2.09       | 220.00     | 6.73           |
| 2017/02/06 14:29 | 2.12       | 226.32     | 6.80           |
| 2017/02/06 14:44 | 2.12       | 227.01     | 6.82           |
| 2017/02/06 14:59 | 2.12       | 227.01     | 6.82           |
| 2017/02/06 15:14 | 2.11       | 224.93     | 6.82           |
| 2017/02/06 15:29 | 1.82       | 157.08     | 5.87           |
| 2017/02/06 15:44 | 1.82       | 157.08     | 5.87           |
| 2017/02/06 15:59 | 1.82       | 157.08     | 5.87           |
| 2017/02/06 16:14 | 1.93       | 157.85     | 5.42           |
| 2017/02/06 16:29 | 2.05       | 161.67     | 5.09           |
| 2017/02/06 16:44 | 2.05       | 161.67     | 5.09           |
| 2017/02/06 16:59 | 1.93       | 139.86     | 4.81           |
| 2017/02/06 17:14 | 1.78       | 120.62     | 4.66           |
| 2017/02/06 17:29 | 1.68       | 104.65     | 4.38           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 17:44 | 1.64       | 107.36     | 4.66           |
| 2017/02/06 17:59 | 1.64       | 107.36     | 4.66           |
| 2017/02/06 18:14 | 1.55       | 94.37      | 4.41           |
| 2017/02/06 18:29 | 1.55       | 94.37      | 4.41           |
| 2017/02/06 18:44 | 1.68       | 114.24     | 4.79           |
| 2017/02/06 18:59 | 1.91       | 157.15     | 5.46           |
| 2017/02/06 19:14 | 2.00       | 174.17     | 5.70           |
| 2017/02/06 19:29 | 2.05       | 181.04     | 5.70           |
| 2017/02/06 19:44 | 2.05       | 181.04     | 5.70           |
| 2017/02/06 19:59 | 2.00       | 161.87     | 5.29           |
| 2017/02/06 20:14 | 1.75       | 96.87      | 3.83           |
| 2017/02/06 20:29 | 1.71       | 81.32      | 3.33           |
| 2017/02/06 20:44 | 1.71       | 14.31      | 0.58           |
| 2017/02/06 20:59 | 1.75       | 13.96      | 0.55           |
| 2017/02/06 21:14 | 1.75       | 13.96      | 0.55           |
| 2017/02/06 21:29 | 1.91       | 16.81      | 0.58           |
| 2017/02/06 21:44 | 1.96       | 99.79      | 3.36           |
| 2017/02/06 21:59 | 1.91       | 103.47     | 3.59           |
| 2017/02/06 22:14 | 1.86       | 99.24      | 3.59           |
| 2017/02/06 22:29 | 1.86       | 99.24      | 3.59           |
| 2017/02/06 22:44 | 1.86       | 97.78      | 3.54           |
| 2017/02/06 22:59 | 1.86       | 97.78      | 3.54           |
| 2017/02/06 23:14 | 1.87       | 98.82      | 3.54           |
| 2017/02/06 23:29 | 1.96       | 116.04     | 3.91           |
| 2017/02/06 23:44 | 2.00       | 154.03     | 5.04           |
| 2017/02/06 23:59 | 2.07       | 165.97     | 5.17           |
| 2017/02/07 00:00 | 2.07       | 165.97     | 5.17           |
| 2017/02/07 00:15 | 2.00       | 158.12     | 5.17           |
| 2017/02/07 00:30 | 1.96       | 149.51     | 5.04           |
| 2017/02/07 00:45 | 1.89       | 137.29     | 4.87           |
| 2017/02/07 01:00 | 1.89       | 136.60     | 4.84           |
| 2017/02/07 01:15 | 1.75       | 113.47     | 4.49           |
| 2017/02/07 01:30 | 1.66       | 100.83     | 4.27           |
| 2017/02/07 01:45 | 1.61       | 92.85      | 4.13           |
| 2017/02/07 02:00 | 1.55       | 5.35       | 0.25           |
| 2017/02/07 02:15 | 1.55       | 5.35       | 0.25           |
| 2017/02/07 02:30 | 1.55       | 5.35       | 0.25           |
| 2017/02/07 02:45 | 1.55       | 5.35       | 0.25           |
| 2017/02/07 03:00 | 1.55       | 5.35       | 0.25           |
| 2017/02/07 03:15 | 1.55       | 14.44      | 0.68           |
| 2017/02/07 03:30 | 1.54       | 12.71      | 0.60           |
| 2017/02/07 03:45 | 1.54       | 13.12      | 0.62           |
| 2017/02/07 04:00 | 1.58       | 18.40      | 0.84           |
| 2017/02/07 04:15 | 1.71       | 15.69      | 0.64           |
| 2017/02/07 04:30 | 1.59       | 13.82      | 0.62           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 04:45 | 1.59       | 13.82      | 0.62           |
| 2017/02/07 05:00 | 1.73       | 14.37      | 0.58           |
| 2017/02/07 05:15 | 1.69       | 13.54      | 0.56           |
| 2017/02/07 05:30 | 1.66       | 13.06      | 0.55           |
| 2017/02/07 05:45 | 1.69       | 13.54      | 0.56           |
| 2017/02/07 06:00 | 1.73       | 14.37      | 0.58           |
| 2017/02/07 06:15 | 1.72       | 13.82      | 0.56           |
| 2017/02/07 06:30 | 1.83       | 16.46      | 0.61           |
| 2017/02/07 06:45 | 1.93       | 18.61      | 0.64           |
| 2017/02/07 07:00 | 2.07       | 20.56      | 0.64           |
| 2017/02/07 07:15 | 2.07       | 24.31      | 0.76           |
| 2017/02/07 07:30 | 2.08       | 29.03      | 0.90           |
| 2017/02/07 07:45 | 2.08       | 29.03      | 0.90           |
| 2017/02/07 08:00 | 2.00       | 25.56      | 0.84           |
| 2017/02/07 08:15 | 1.93       | 24.31      | 0.84           |
| 2017/02/07 08:30 | 1.93       | 24.31      | 0.84           |
| 2017/02/07 08:45 | 1.93       | 24.31      | 0.84           |
| 2017/02/07 09:00 | 1.91       | 24.10      | 0.84           |
| 2017/02/07 09:15 | 1.91       | 24.10      | 0.84           |
| 2017/02/07 09:30 | 1.90       | 23.89      | 0.84           |
| 2017/02/07 09:45 | 1.90       | 23.89      | 0.84           |
| 2017/02/07 10:00 | 1.90       | 23.89      | 0.84           |
| 2017/02/07 10:15 | 2.09       | 29.65      | 0.91           |
| 2017/02/07 10:30 | 2.14       | 30.49      | 0.91           |
| 2017/02/07 10:45 | 2.14       | 30.49      | 0.91           |
| 2017/02/07 11:00 | 2.16       | 15.28      | 0.45           |
| 2017/02/07 11:15 | 2.16       | 14.93      | 0.44           |
| 2017/02/07 11:30 | 2.16       | 14.93      | 0.44           |
| 2017/02/07 11:45 | 1.96       | 11.74      | 0.40           |
| 2017/02/07 12:00 | 2.16       | 15.00      | 0.44           |
| 2017/02/07 12:15 | 2.05       | 12.99      | 0.41           |
| 2017/02/07 12:30 | 2.16       | 15.00      | 0.44           |
| 2017/02/07 12:45 | 2.36       | 18.06      | 0.47           |
| 2017/02/07 13:00 | 2.36       | 18.06      | 0.47           |
| 2017/02/07 13:15 | 2.05       | 7.92       | 0.25           |
| 2017/02/07 13:30 | 1.91       | 148.47     | 5.16           |
| 2017/02/07 13:45 | 1.89       | 132.08     | 4.68           |
| 2017/02/07 14:00 | 1.72       | 105.69     | 4.27           |
| 2017/02/07 14:15 | 1.64       | 102.50     | 4.45           |
| 2017/02/07 14:30 | 1.72       | 115.83     | 4.68           |
| 2017/02/07 14:45 | 1.72       | 115.83     | 4.68           |
| 2017/02/07 15:00 | 1.64       | 102.50     | 4.45           |
| 2017/02/07 15:15 | 1.64       | 102.50     | 4.45           |
| 2017/02/07 15:30 | 1.62       | 100.83     | 4.43           |
| 2017/02/07 15:45 | 1.62       | 100.83     | 4.43           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 16:00 | 1.62       | 100.83     | 4.43           |
| 2017/02/07 16:15 | 1.93       | 7.29       | 0.25           |
| 2017/02/07 16:30 | 1.93       | 7.29       | 0.25           |
| 2017/02/07 16:45 | 1.93       | 7.29       | 0.25           |
| 2017/02/07 17:00 | 1.69       | 6.04       | 0.25           |
| 2017/02/07 17:15 | 1.69       | 12.29      | 0.51           |
| 2017/02/07 17:30 | 1.69       | 14.44      | 0.60           |
| 2017/02/07 17:45 | 1.71       | 14.86      | 0.61           |
| 2017/02/07 18:00 | 1.87       | 15.69      | 0.56           |
| 2017/02/07 18:15 | 1.98       | 18.12      | 0.60           |
| 2017/02/07 18:30 | 1.98       | 18.40      | 0.61           |
| 2017/02/07 18:45 | 1.87       | 17.29      | 0.62           |
| 2017/02/07 19:00 | 1.87       | 18.61      | 0.67           |
| 2017/02/07 19:15 | 2.04       | 21.87      | 0.70           |
| 2017/02/07 19:30 | 1.87       | 20.42      | 0.73           |
| 2017/02/07 19:45 | 1.87       | 20.42      | 0.73           |
| 2017/02/07 20:00 | 2.04       | 25.14      | 0.80           |
| 2017/02/07 20:15 | 1.97       | 22.99      | 0.77           |
| 2017/02/07 20:30 | 1.97       | 22.99      | 0.77           |
| 2017/02/07 20:45 | 2.04       | 25.97      | 0.83           |
| 2017/02/07 21:00 | 2.04       | 25.97      | 0.83           |
| 2017/02/07 21:15 | 1.97       | 22.99      | 0.77           |
| 2017/02/07 21:30 | 1.84       | 20.49      | 0.75           |
| 2017/02/07 21:45 | 1.75       | 17.92      | 0.71           |
| 2017/02/07 22:00 | 1.71       | 16.94      | 0.69           |
| 2017/02/07 22:15 | 1.71       | 16.94      | 0.69           |
| 2017/02/07 22:30 | 1.66       | 15.69      | 0.67           |
| 2017/02/07 22:45 | 1.54       | 12.99      | 0.61           |
| 2017/02/07 23:00 | 1.54       | 12.99      | 0.61           |
| 2017/02/07 23:15 | 1.61       | 14.44      | 0.64           |
| 2017/02/07 23:30 | 1.61       | 5.62       | 0.25           |
| 2017/02/07 23:45 | 1.54       | 5.28       | 0.25           |
| 2017/02/08 00:00 | 1.54       | 5.28       | 0.25           |
| 2017/02/08 00:15 | 1.54       | 5.28       | 0.25           |
| 2017/02/08 00:30 | 1.51       | 5.14       | 0.25           |
| 2017/02/08 00:45 | 1.51       | 5.14       | 0.25           |
| 2017/02/08 01:00 | 1.51       | 5.14       | 0.25           |
| 2017/02/08 01:15 | 1.51       | 5.14       | 0.25           |
| 2017/02/08 01:30 | 1.48       | 5.00       | 0.25           |
| 2017/02/08 01:45 | 1.48       | 5.00       | 0.25           |
| 2017/02/08 02:00 | 1.48       | 5.00       | 0.25           |
| 2017/02/08 02:15 | 1.47       | 4.93       | 0.25           |
| 2017/02/08 02:30 | 1.47       | 4.93       | 0.25           |
| 2017/02/08 02:45 | 1.47       | 4.93       | 0.25           |
| 2017/02/08 03:00 | 1.46       | 4.86       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 03:15 | 1.46       | 4.86       | 0.25           |
| 2017/02/08 03:30 | 1.46       | 12.22      | 0.63           |
| 2017/02/08 03:45 | 1.46       | 12.15      | 0.62           |
| 2017/02/08 04:00 | 1.46       | 12.01      | 0.62           |
| 2017/02/08 04:15 | 1.46       | 99.31      | 5.10           |
| 2017/02/08 04:30 | 1.46       | 12.22      | 0.63           |
| 2017/02/08 04:45 | 1.46       | 99.31      | 5.10           |
| 2017/02/08 05:00 | 1.51       | 108.89     | 5.29           |
| 2017/02/08 05:15 | 1.51       | 108.89     | 5.29           |
| 2017/02/08 05:30 | 1.51       | 108.89     | 5.29           |
| 2017/02/08 05:45 | 1.48       | 103.75     | 5.18           |
| 2017/02/08 06:00 | 1.48       | 103.75     | 5.18           |
| 2017/02/08 06:15 | 1.48       | 103.75     | 5.18           |
| 2017/02/08 06:30 | 1.76       | 156.46     | 6.12           |
| 2017/02/08 06:45 | 1.83       | 171.81     | 6.36           |
| 2017/02/08 07:00 | 1.89       | 7.08       | 0.25           |
| 2017/02/08 07:15 | 1.89       | 7.08       | 0.25           |
| 2017/02/08 07:30 | 1.96       | 7.43       | 0.25           |
| 2017/02/08 07:45 | 1.96       | 7.43       | 0.25           |
| 2017/02/08 08:00 | 1.98       | 9.17       | 0.30           |
| 2017/02/08 08:15 | 2.04       | 11.94      | 0.38           |
| 2017/02/08 08:30 | 2.19       | 12.57      | 0.36           |
| 2017/02/08 08:45 | 2.04       | 8.61       | 0.27           |
| 2017/02/08 09:00 | 2.04       | 9.58       | 0.30           |
| 2017/02/08 09:15 | 1.86       | 7.57       | 0.27           |
| 2017/02/08 09:30 | 1.86       | 7.57       | 0.27           |
| 2017/02/08 09:45 | 1.86       | 7.57       | 0.27           |
| 2017/02/08 10:00 | 1.76       | 6.60       | 0.26           |
| 2017/02/08 10:15 | 1.76       | 6.60       | 0.26           |
| 2017/02/08 10:30 | 1.94       | 8.33       | 0.28           |
| 2017/02/08 10:45 | 1.94       | 8.33       | 0.28           |
| 2017/02/08 11:00 | 1.76       | 8.96       | 0.35           |
| 2017/02/08 11:15 | 1.98       | 133.82     | 4.42           |
| 2017/02/08 11:30 | 2.01       | 162.08     | 5.25           |
| 2017/02/08 11:45 | 1.98       | 158.96     | 5.25           |
| 2017/02/08 12:00 | 1.69       | 106.74     | 4.42           |
| 2017/02/08 12:15 | 1.68       | 104.72     | 4.39           |
| 2017/02/08 12:30 | 1.54       | 84.17      | 3.99           |
| 2017/02/08 12:45 | 1.54       | 84.17      | 3.99           |
| 2017/02/08 13:00 | 1.54       | 84.17      | 3.99           |
| 2017/02/08 13:15 | 1.98       | 155.62     | 5.14           |
| 2017/02/08 13:30 | 1.98       | 7.57       | 0.25           |
| 2017/02/08 13:45 | 2.03       | 7.78       | 0.25           |
| 2017/02/08 14:00 | 2.03       | 7.78       | 0.25           |
| 2017/02/08 14:15 | 2.07       | 7.99       | 0.25           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 14:30 | 2.07       | 7.99       | 0.25           |
| 2017/02/08 14:45 | 2.15       | 8.47       | 0.25           |
| 2017/02/08 15:00 | 2.22       | 8.89       | 0.25           |
| 2017/02/08 15:15 | 2.22       | 8.89       | 0.25           |
| 2017/02/08 15:30 | 2.22       | 8.89       | 0.25           |
| 2017/02/08 15:45 | 2.15       | 9.93       | 0.29           |
| 2017/02/08 16:00 | 2.12       | 10.69      | 0.32           |
| 2017/02/08 16:15 | 2.12       | 11.25      | 0.34           |
| 2017/02/08 16:30 | 2.03       | 9.51       | 0.31           |
| 2017/02/08 16:45 | 2.03       | 9.51       | 0.31           |
| 2017/02/08 17:00 | 2.03       | 9.51       | 0.31           |
| 2017/02/08 17:15 | 1.91       | 8.82       | 0.31           |
| 2017/02/08 17:30 | 1.86       | 8.40       | 0.31           |
| 2017/02/08 17:45 | 1.86       | 7.99       | 0.29           |
| 2017/02/08 18:00 | 1.86       | 139.86     | 5.07           |
| 2017/02/08 18:15 | 2.03       | 160.90     | 5.16           |
| 2017/02/08 18:30 | 2.04       | 164.24     | 5.22           |
| 2017/02/08 18:45 | 2.05       | 165.76     | 5.22           |
| 2017/02/08 19:00 | 2.30       | 220.28     | 5.90           |
| 2017/02/08 19:15 | 2.33       | 223.96     | 5.90           |
| 2017/02/08 19:30 | 2.50       | 246.46     | 5.90           |
| 2017/02/08 19:45 | 2.50       | 242.29     | 5.80           |
| 2017/02/08 20:00 | 2.50       | 222.15     | 5.32           |
| 2017/02/08 20:15 | 1.89       | 102.08     | 3.62           |
| 2017/02/08 20:30 | 1.65       | 72.92      | 3.13           |
| 2017/02/08 20:45 | 1.58       | 65.21      | 2.97           |
| 2017/02/08 21:00 | 1.58       | 65.21      | 2.97           |
| 2017/02/08 21:15 | 1.58       | 65.21      | 2.97           |
| 2017/02/08 21:30 | 1.58       | 65.21      | 2.97           |
| 2017/02/08 21:45 | 1.71       | 78.33      | 3.21           |
| 2017/02/08 22:00 | 1.71       | 6.11       | 0.25           |
| 2017/02/08 22:15 | 1.66       | 5.90       | 0.25           |
| 2017/02/08 22:30 | 1.66       | 5.90       | 0.25           |
| 2017/02/08 22:45 | 1.66       | 5.90       | 0.25           |
| 2017/02/08 23:00 | 1.66       | 5.90       | 0.25           |
| 2017/02/08 23:15 | 1.59       | 5.56       | 0.25           |
| 2017/02/08 23:30 | 1.69       | 6.04       | 0.25           |
| 2017/02/08 23:45 | 1.69       | 6.04       | 0.25           |
| 2017/02/09 00:00 | 1.72       | 6.18       | 0.25           |
| 2017/02/09 00:15 | 1.72       | 6.18       | 0.25           |
| 2017/02/09 00:30 | 1.72       | 6.18       | 0.25           |
| 2017/02/09 00:45 | 1.54       | 5.28       | 0.25           |
| 2017/02/09 01:00 | 1.54       | 5.28       | 0.25           |
| 2017/02/09 01:15 | 1.53       | 5.21       | 0.25           |
| 2017/02/09 01:30 | 1.51       | 5.14       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 01:45 | 1.51       | 5.14       | 0.25           |
| 2017/02/09 02:00 | 1.50       | 5.07       | 0.25           |
| 2017/02/09 02:15 | 1.50       | 5.07       | 0.25           |
| 2017/02/09 02:30 | 1.48       | 99.17      | 4.95           |
| 2017/02/09 02:45 | 1.47       | 98.54      | 4.99           |
| 2017/02/09 03:00 | 1.46       | 95.83      | 4.92           |
| 2017/02/09 03:15 | 1.46       | 95.83      | 4.92           |
| 2017/02/09 03:30 | 1.46       | 95.83      | 4.92           |
| 2017/02/09 03:45 | 1.46       | 95.83      | 4.92           |
| 2017/02/09 04:00 | 1.46       | 95.83      | 4.92           |
| 2017/02/09 04:15 | 1.46       | 95.83      | 4.92           |
| 2017/02/09 04:30 | 1.46       | 95.83      | 4.92           |
| 2017/02/09 04:45 | 1.46       | 95.83      | 4.92           |
| 2017/02/09 05:00 | 1.47       | 98.12      | 4.97           |
| 2017/02/09 05:15 | 1.47       | 4.93       | 0.25           |
| 2017/02/09 05:30 | 1.47       | 4.93       | 0.25           |
| 2017/02/09 05:45 | 1.47       | 4.93       | 0.25           |
| 2017/02/09 06:00 | 1.46       | 4.86       | 0.25           |
| 2017/02/09 06:15 | 1.46       | 4.86       | 0.25           |
| 2017/02/09 06:30 | 1.47       | 100.21     | 5.07           |
| 2017/02/09 06:45 | 1.47       | 100.97     | 5.11           |
| 2017/02/09 07:00 | 1.50       | 111.87     | 5.51           |
| 2017/02/09 07:15 | 1.50       | 154.17     | 7.60           |
| 2017/02/09 07:30 | 1.61       | 114.93     | 5.11           |
| 2017/02/09 07:45 | 1.97       | 153.26     | 5.11           |
| 2017/02/09 08:00 | 1.97       | 12.43      | 0.41           |
| 2017/02/09 08:15 | 2.16       | 12.92      | 0.38           |
| 2017/02/09 08:30 | 2.04       | 10.83      | 0.34           |
| 2017/02/09 08:45 | 2.22       | 13.40      | 0.38           |
| 2017/02/09 09:00 | 2.22       | 13.40      | 0.38           |
| 2017/02/09 09:15 | 2.22       | 13.47      | 0.38           |
| 2017/02/09 09:30 | 2.04       | 12.29      | 0.39           |
| 2017/02/09 09:45 | 2.23       | 184.58     | 5.16           |
| 2017/02/09 10:00 | 2.29       | 191.04     | 5.16           |
| 2017/02/09 10:15 | 2.00       | 157.78     | 5.16           |
| 2017/02/09 10:30 | 2.15       | 9.03       | 0.27           |
| 2017/02/09 10:45 | 2.15       | 8.19       | 0.24           |
| 2017/02/09 11:00 | 2.15       | 8.19       | 0.24           |
| 2017/02/09 11:15 | 2.12       | 7.92       | 0.24           |
| 2017/02/09 11:30 | 2.12       | 7.92       | 0.24           |
| 2017/02/09 11:45 | 1.69       | 4.51       | 0.19           |
| 2017/02/09 12:00 | 1.69       | 4.51       | 0.19           |
| 2017/02/09 12:15 | 1.69       | 4.51       | 0.19           |
| 2017/02/09 12:30 | 2.14       | 7.92       | 0.23           |
| 2017/02/09 12:45 | 2.14       | 8.40       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 13:00 | 2.14       | 173.33     | 5.16           |
| 2017/02/09 13:15 | 2.16       | 218.40     | 6.38           |
| 2017/02/09 13:30 | 1.93       | 19.86      | 0.68           |
| 2017/02/09 13:45 | 1.93       | 25.49      | 0.88           |
| 2017/02/09 14:00 | 2.16       | 30.00      | 0.88           |
| 2017/02/09 14:15 | 2.40       | 34.65      | 0.88           |
| 2017/02/09 14:30 | 2.40       | 34.31      | 0.87           |
| 2017/02/09 14:45 | 2.40       | 34.31      | 0.87           |
| 2017/02/09 15:00 | 2.07       | 9.10       | 0.28           |
| 2017/02/09 15:15 | 1.90       | 6.87       | 0.24           |
| 2017/02/09 15:30 | 1.78       | 5.62       | 0.22           |
| 2017/02/09 15:45 | 1.78       | 6.25       | 0.24           |
| 2017/02/09 16:00 | 1.78       | 6.25       | 0.24           |
| 2017/02/09 16:15 | 1.86       | 7.01       | 0.25           |
| 2017/02/09 16:30 | 1.90       | 7.36       | 0.26           |
| 2017/02/09 16:45 | 2.01       | 8.47       | 0.27           |
| 2017/02/09 17:00 | 1.90       | 8.68       | 0.30           |
| 2017/02/09 17:15 | 2.11       | 21.94      | 0.67           |
| 2017/02/09 17:30 | 2.11       | 27.57      | 0.84           |
| 2017/02/09 17:45 | 2.11       | 27.57      | 0.84           |
| 2017/02/09 18:00 | 2.14       | 22.36      | 0.67           |
| 2017/02/09 18:15 | 2.14       | 10.35      | 0.31           |
| 2017/02/09 18:30 | 2.03       | 8.82       | 0.28           |
| 2017/02/09 18:45 | 2.07       | 8.54       | 0.27           |
| 2017/02/09 19:00 | 2.05       | 8.40       | 0.26           |
| 2017/02/09 19:15 | 2.05       | 8.40       | 0.26           |
| 2017/02/09 19:30 | 2.07       | 8.54       | 0.27           |
| 2017/02/09 19:45 | 2.07       | 8.54       | 0.27           |
| 2017/02/09 20:00 | 2.05       | 8.40       | 0.26           |
| 2017/02/09 20:15 | 1.80       | 6.67       | 0.25           |
| 2017/02/09 20:30 | 1.73       | 6.04       | 0.24           |
| 2017/02/09 20:45 | 1.73       | 6.04       | 0.24           |
| 2017/02/09 21:00 | 1.59       | 4.93       | 0.22           |
| 2017/02/09 21:15 | 1.57       | 4.72       | 0.22           |
| 2017/02/09 21:30 | 1.57       | 4.72       | 0.22           |
| 2017/02/09 21:45 | 1.57       | 4.72       | 0.22           |
| 2017/02/09 22:00 | 1.54       | 5.28       | 0.25           |
| 2017/02/09 22:15 | 1.54       | 5.28       | 0.25           |
| 2017/02/09 22:30 | 1.66       | 5.90       | 0.25           |
| 2017/02/09 22:45 | 1.78       | 6.46       | 0.25           |
| 2017/02/09 23:00 | 1.98       | 7.57       | 0.25           |
| 2017/02/09 23:15 | 2.00       | 7.64       | 0.25           |
| 2017/02/09 23:30 | 2.00       | 7.64       | 0.25           |
| 2017/02/09 23:45 | 1.98       | 7.57       | 0.25           |
| 2017/02/10 00:00 | 1.61       | 5.62       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 00:15 | 1.58       | 5.49       | 0.25           |
| 2017/02/10 00:30 | 1.51       | 5.14       | 0.25           |
| 2017/02/10 00:45 | 1.51       | 120.69     | 5.87           |
| 2017/02/10 01:00 | 1.51       | 114.72     | 5.58           |
| 2017/02/10 01:15 | 1.54       | 107.22     | 5.08           |
| 2017/02/10 01:30 | 1.54       | 102.71     | 4.87           |
| 2017/02/10 01:45 | 1.54       | 107.22     | 5.08           |
| 2017/02/10 02:00 | 1.48       | 97.43      | 4.87           |
| 2017/02/10 02:15 | 1.48       | 97.43      | 4.87           |
| 2017/02/10 02:30 | 1.46       | 93.54      | 4.80           |
| 2017/02/10 02:45 | 1.46       | 93.54      | 4.80           |
| 2017/02/10 03:00 | 1.50       | 100.21     | 4.94           |
| 2017/02/10 03:15 | 1.50       | 100.21     | 4.94           |
| 2017/02/10 03:30 | 1.62       | 5.69       | 0.25           |
| 2017/02/10 03:45 | 1.62       | 5.69       | 0.25           |
| 2017/02/10 04:00 | 1.62       | 5.69       | 0.25           |
| 2017/02/10 04:15 | 1.62       | 126.39     | 5.55           |
| 2017/02/10 04:30 | 1.62       | 120.83     | 5.31           |
| 2017/02/10 04:45 | 1.64       | 128.75     | 5.59           |
| 2017/02/10 05:00 | 1.71       | 152.08     | 6.22           |
| 2017/02/10 05:15 | 1.71       | 136.60     | 5.59           |
| 2017/02/10 05:30 | 1.72       | 139.10     | 5.62           |
| 2017/02/10 05:45 | 1.82       | 162.57     | 6.08           |
| 2017/02/10 06:00 | 1.82       | 162.57     | 6.08           |
| 2017/02/10 06:15 | 1.72       | 139.10     | 5.62           |
| 2017/02/10 06:30 | 1.58       | 115.97     | 5.29           |
| 2017/02/10 06:45 | 1.58       | 115.97     | 5.29           |
| 2017/02/10 07:00 | 1.58       | 5.49       | 0.25           |
| 2017/02/10 07:15 | 1.64       | 119.17     | 5.17           |
| 2017/02/10 07:30 | 1.89       | 175.07     | 6.21           |
| 2017/02/10 07:45 | 1.89       | 144.86     | 5.14           |
| 2017/02/10 08:00 | 2.09       | 10.97      | 0.34           |
| 2017/02/10 08:15 | 2.11       | 169.44     | 5.14           |
| 2017/02/10 08:30 | 2.11       | 11.32      | 0.34           |
| 2017/02/10 08:45 | 1.69       | 8.12       | 0.34           |
| 2017/02/10 09:00 | 1.69       | 6.39       | 0.26           |
| 2017/02/10 09:15 | 1.69       | 6.39       | 0.26           |
| 2017/02/10 09:30 | 1.69       | 6.39       | 0.26           |
| 2017/02/10 09:45 | 1.94       | 9.03       | 0.31           |
| 2017/02/10 10:00 | 1.94       | 9.03       | 0.31           |
| 2017/02/10 10:15 | 1.94       | 9.03       | 0.31           |
| 2017/02/10 10:30 | 1.96       | 6.81       | 0.23           |
| 2017/02/10 10:45 | 2.16       | 7.71       | 0.23           |
| 2017/02/10 11:00 | 2.16       | 6.94       | 0.20           |
| 2017/02/10 11:15 | 2.18       | 5.76       | 0.17           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 11:30 | 2.21       | 5.28       | 0.15           |
| 2017/02/10 11:45 | 2.18       | 4.93       | 0.14           |
| 2017/02/10 12:00 | 2.18       | 4.79       | 0.14           |
| 2017/02/10 12:15 | 1.91       | 3.47       | 0.12           |
| 2017/02/10 12:30 | 1.91       | 3.47       | 0.12           |
| 2017/02/10 12:45 | 1.91       | 3.47       | 0.12           |
| 2017/02/10 13:00 | 1.82       | 19.37      | 0.72           |
| 2017/02/10 13:15 | 1.82       | 19.37      | 0.72           |
| 2017/02/10 13:30 | 1.82       | 19.37      | 0.72           |
| 2017/02/10 13:45 | 1.75       | 18.33      | 0.72           |
| 2017/02/10 14:00 | 1.75       | 18.33      | 0.72           |
| 2017/02/10 14:15 | 1.61       | 15.62      | 0.70           |
| 2017/02/10 14:30 | 1.61       | 17.43      | 0.78           |
| 2017/02/10 14:45 | 1.79       | 22.29      | 0.85           |
| 2017/02/10 15:00 | 1.89       | 23.68      | 0.84           |
| 2017/02/10 15:15 | 1.79       | 20.35      | 0.78           |
| 2017/02/10 15:30 | 1.93       | 24.44      | 0.84           |
| 2017/02/10 15:45 | 1.94       | 24.72      | 0.84           |
| 2017/02/10 16:00 | 1.96       | 22.22      | 0.75           |
| 2017/02/10 16:15 | 2.19       | 23.75      | 0.68           |
| 2017/02/10 16:30 | 2.19       | 23.75      | 0.68           |
| 2017/02/10 16:45 | 2.14       | 22.92      | 0.68           |
| 2017/02/10 17:00 | 2.14       | 27.92      | 0.83           |
| 2017/02/10 17:15 | 2.09       | 27.15      | 0.83           |
| 2017/02/10 17:30 | 2.09       | 27.15      | 0.83           |
| 2017/02/10 17:45 | 2.09       | 22.01      | 0.67           |
| 2017/02/10 18:00 | 2.09       | 22.01      | 0.67           |
| 2017/02/10 18:15 | 1.94       | 19.79      | 0.67           |
| 2017/02/10 18:30 | 1.94       | 20.97      | 0.71           |
| 2017/02/10 18:45 | 1.94       | 22.36      | 0.76           |
| 2017/02/10 19:00 | 1.94       | 22.43      | 0.76           |
| 2017/02/10 19:15 | 1.94       | 22.43      | 0.76           |
| 2017/02/10 19:30 | 1.97       | 23.89      | 0.80           |
| 2017/02/10 19:45 | 1.97       | 25.69      | 0.86           |
| 2017/02/10 20:00 | 1.97       | 27.92      | 0.93           |
| 2017/02/10 20:15 | 1.83       | 128.40     | 4.75           |
| 2017/02/10 20:30 | 1.80       | 129.65     | 4.90           |
| 2017/02/10 20:45 | 1.76       | 125.42     | 4.90           |
| 2017/02/10 21:00 | 1.71       | 116.18     | 4.75           |
| 2017/02/10 21:15 | 1.71       | 19.93      | 0.81           |
| 2017/02/10 21:30 | 1.71       | 19.93      | 0.81           |
| 2017/02/10 21:45 | 1.71       | 19.93      | 0.81           |
| 2017/02/10 22:00 | 1.86       | 24.58      | 0.89           |
| 2017/02/10 22:15 | 1.86       | 24.58      | 0.89           |
| 2017/02/10 22:30 | 1.86       | 24.58      | 0.89           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 22:45 | 1.82       | 23.19      | 0.87           |
| 2017/02/10 23:00 | 1.64       | 17.85      | 0.78           |
| 2017/02/10 23:15 | 1.57       | 16.18      | 0.75           |
| 2017/02/10 23:30 | 1.48       | 14.17      | 0.71           |
| 2017/02/10 23:45 | 1.48       | 14.17      | 0.71           |
| 2017/02/11 00:00 | 1.48       | 14.03      | 0.70           |
| 2017/02/11 00:15 | 1.51       | 14.03      | 0.68           |
| 2017/02/11 00:30 | 1.64       | 3.96       | 0.17           |
| 2017/02/11 00:45 | 1.64       | 3.96       | 0.17           |
| 2017/02/11 01:00 | 1.72       | 4.24       | 0.17           |
| 2017/02/11 01:15 | 1.75       | 4.37       | 0.17           |
| 2017/02/11 01:30 | 2.08       | 10.21      | 0.31           |
| 2017/02/11 01:45 | 2.08       | 10.21      | 0.31           |
| 2017/02/11 02:00 | 2.08       | 10.21      | 0.31           |
| 2017/02/11 02:15 | 2.03       | 9.58       | 0.31           |
| 2017/02/11 02:30 | 1.89       | 7.99       | 0.28           |
| 2017/02/11 02:45 | 1.83       | 7.43       | 0.27           |
| 2017/02/11 03:00 | 1.69       | 6.18       | 0.26           |
| 2017/02/11 03:15 | 1.53       | 4.86       | 0.23           |
| 2017/02/11 03:30 | 1.44       | 4.24       | 0.22           |
| 2017/02/11 03:45 | 1.44       | 4.79       | 0.25           |
| 2017/02/11 04:00 | 1.43       | 4.72       | 0.25           |
| 2017/02/11 04:15 | 1.43       | 4.72       | 0.25           |
| 2017/02/11 04:30 | 1.43       | 4.72       | 0.25           |
| 2017/02/11 04:45 | 1.44       | 97.15      | 5.06           |
| 2017/02/11 05:00 | 1.44       | 102.99     | 5.36           |
| 2017/02/11 05:15 | 1.44       | 99.51      | 5.18           |
| 2017/02/11 05:30 | 1.48       | 120.35     | 6.01           |
| 2017/02/11 05:45 | 1.53       | 111.60     | 5.36           |
| 2017/02/11 06:00 | 1.69       | 144.58     | 5.98           |
| 2017/02/11 06:15 | 1.69       | 145.28     | 6.01           |
| 2017/02/11 06:30 | 1.78       | 155.56     | 6.01           |
| 2017/02/11 06:45 | 1.78       | 154.79     | 5.98           |
| 2017/02/11 07:00 | 1.78       | 17.50      | 0.68           |
| 2017/02/11 07:15 | 1.78       | 14.93      | 0.58           |
| 2017/02/11 07:30 | 1.59       | 11.39      | 0.51           |
| 2017/02/11 07:45 | 1.59       | 11.39      | 0.51           |
| 2017/02/11 08:00 | 1.59       | 11.39      | 0.51           |
| 2017/02/11 08:15 | 1.59       | 11.53      | 0.52           |
| 2017/02/11 08:30 | 1.72       | 13.82      | 0.56           |
| 2017/02/11 08:45 | 1.94       | 18.54      | 0.63           |
| 2017/02/11 09:00 | 1.98       | 19.51      | 0.65           |
| 2017/02/11 09:15 | 1.98       | 7.57       | 0.25           |
| 2017/02/11 09:30 | 1.98       | 7.57       | 0.25           |
| 2017/02/11 09:45 | 1.94       | 17.64      | 0.60           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 10:00 | 1.94       | 22.50      | 0.77           |
| 2017/02/11 10:15 | 1.91       | 17.99      | 0.62           |
| 2017/02/11 10:30 | 1.91       | 19.17      | 0.67           |
| 2017/02/11 10:45 | 1.91       | 18.26      | 0.63           |
| 2017/02/11 11:00 | 2.00       | 20.35      | 0.67           |
| 2017/02/11 11:15 | 2.00       | 20.35      | 0.67           |
| 2017/02/11 11:30 | 2.00       | 20.35      | 0.67           |
| 2017/02/11 11:45 | 1.93       | 18.68      | 0.64           |
| 2017/02/11 12:00 | 2.03       | 21.04      | 0.68           |
| 2017/02/11 12:15 | 1.93       | 18.68      | 0.64           |
| 2017/02/11 12:30 | 1.93       | 17.92      | 0.62           |
| 2017/02/11 12:45 | 1.93       | 17.92      | 0.61           |
| 2017/02/11 13:00 | 1.84       | 11.94      | 0.44           |
| 2017/02/11 13:15 | 1.75       | 8.75       | 0.35           |
| 2017/02/11 13:30 | 1.75       | 8.75       | 0.35           |
| 2017/02/11 13:45 | 1.75       | 8.75       | 0.35           |
| 2017/02/11 14:00 | 2.23       | 16.18      | 0.45           |
| 2017/02/11 14:15 | 2.44       | 20.21      | 0.50           |
| 2017/02/11 14:30 | 2.44       | 20.21      | 0.50           |
| 2017/02/11 14:45 | 2.44       | 20.21      | 0.50           |
| 2017/02/11 15:00 | 2.33       | 18.06      | 0.48           |
| 2017/02/11 15:15 | 2.33       | 9.51       | 0.25           |
| 2017/02/11 15:30 | 2.30       | 196.53     | 5.26           |
| 2017/02/11 15:45 | 2.29       | 159.17     | 4.30           |
| 2017/02/11 16:00 | 2.14       | 173.06     | 5.15           |
| 2017/02/11 16:15 | 1.90       | 150.56     | 5.28           |
| 2017/02/11 16:30 | 1.72       | 127.36     | 5.15           |
| 2017/02/11 16:45 | 1.68       | 111.25     | 4.66           |
| 2017/02/11 17:00 | 1.68       | 122.99     | 5.15           |
| 2017/02/11 17:15 | 1.71       | 127.85     | 5.23           |
| 2017/02/11 17:30 | 1.71       | 127.85     | 5.23           |
| 2017/02/11 17:45 | 1.87       | 162.57     | 5.83           |
| 2017/02/11 18:00 | 1.87       | 162.57     | 5.83           |
| 2017/02/11 18:15 | 1.93       | 174.44     | 6.00           |
| 2017/02/11 18:30 | 1.87       | 162.57     | 5.83           |
| 2017/02/11 18:45 | 2.09       | 8.19       | 0.25           |
| 2017/02/11 19:00 | 2.03       | 7.78       | 0.25           |
| 2017/02/11 19:15 | 2.03       | 7.78       | 0.25           |
| 2017/02/11 19:30 | 1.96       | 5.14       | 0.17           |
| 2017/02/11 19:45 | 1.96       | 5.00       | 0.17           |
| 2017/02/11 20:00 | 1.93       | 5.00       | 0.17           |
| 2017/02/11 20:15 | 1.93       | 4.58       | 0.16           |
| 2017/02/11 20:30 | 1.93       | 5.00       | 0.17           |
| 2017/02/11 20:45 | 1.93       | 5.00       | 0.17           |
| 2017/02/11 21:00 | 2.05       | 5.83       | 0.18           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 21:15 | 2.05       | 7.08       | 0.22           |
| 2017/02/11 21:30 | 2.05       | 39.72      | 1.25           |
| 2017/02/11 21:45 | 2.07       | 40.07      | 1.25           |
| 2017/02/11 22:00 | 2.07       | 41.81      | 1.30           |
| 2017/02/11 22:15 | 2.21       | 200.49     | 5.71           |
| 2017/02/11 22:30 | 2.25       | 205.83     | 5.71           |
| 2017/02/11 22:45 | 2.25       | 205.83     | 5.71           |
| 2017/02/11 23:00 | 2.25       | 189.93     | 5.26           |
| 2017/02/11 23:15 | 2.14       | 143.47     | 4.27           |
| 2017/02/11 23:30 | 2.11       | 140.83     | 4.27           |
| 2017/02/11 23:45 | 2.11       | 140.83     | 4.27           |
| 2017/02/12 00:00 | 1.76       | 109.24     | 4.27           |
| 2017/02/12 00:15 | 1.58       | 82.92      | 3.78           |
| 2017/02/12 00:30 | 1.55       | 79.17      | 3.70           |
| 2017/02/12 00:45 | 1.53       | 76.04      | 3.65           |
| 2017/02/12 01:00 | 1.53       | 76.04      | 3.65           |
| 2017/02/12 01:15 | 1.55       | 79.17      | 3.70           |
| 2017/02/12 01:30 | 1.55       | 79.17      | 3.70           |
| 2017/02/12 01:45 | 1.57       | 5.42       | 0.25           |
| 2017/02/12 02:00 | 1.66       | 5.90       | 0.25           |
| 2017/02/12 02:15 | 1.66       | 5.90       | 0.25           |
| 2017/02/12 02:30 | 1.79       | 6.53       | 0.25           |
| 2017/02/12 02:45 | 1.90       | 7.15       | 0.25           |
| 2017/02/12 03:00 | 1.90       | 7.15       | 0.25           |
| 2017/02/12 03:15 | 1.96       | 7.43       | 0.25           |
| 2017/02/12 03:30 | 1.90       | 7.15       | 0.25           |
| 2017/02/12 03:45 | 1.90       | 7.15       | 0.25           |
| 2017/02/12 04:00 | 1.78       | 6.46       | 0.25           |
| 2017/02/12 04:15 | 1.78       | 6.46       | 0.25           |
| 2017/02/12 04:30 | 1.55       | 5.35       | 0.25           |
| 2017/02/12 04:45 | 1.47       | 4.93       | 0.25           |
| 2017/02/12 05:00 | 1.46       | 4.86       | 0.25           |
| 2017/02/12 05:15 | 1.46       | 4.86       | 0.25           |
| 2017/02/12 05:30 | 1.46       | 4.86       | 0.25           |
| 2017/02/12 05:45 | 1.46       | 4.86       | 0.25           |
| 2017/02/12 06:00 | 1.46       | 4.86       | 0.25           |
| 2017/02/12 06:15 | 1.51       | 5.14       | 0.25           |
| 2017/02/12 06:30 | 1.51       | 5.14       | 0.25           |
| 2017/02/12 06:45 | 1.59       | 5.56       | 0.25           |
| 2017/02/12 07:00 | 1.62       | 15.00      | 0.66           |
| 2017/02/12 07:15 | 1.76       | 8.26       | 0.32           |
| 2017/02/12 07:30 | 1.93       | 9.79       | 0.34           |
| 2017/02/12 07:45 | 2.01       | 10.62      | 0.34           |
| 2017/02/12 08:00 | 2.08       | 10.90      | 0.34           |
| 2017/02/12 08:15 | 2.09       | 11.04      | 0.34           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 08:30 | 2.09       | 11.25      | 0.34           |
| 2017/02/12 08:45 | 2.08       | 11.11      | 0.34           |
| 2017/02/12 09:00 | 1.98       | 10.14      | 0.34           |
| 2017/02/12 09:15 | 1.98       | 6.25       | 0.21           |
| 2017/02/12 09:30 | 1.98       | 6.25       | 0.21           |
| 2017/02/12 09:45 | 2.01       | 6.39       | 0.21           |
| 2017/02/12 10:00 | 2.09       | 7.01       | 0.22           |
| 2017/02/12 10:15 | 2.32       | 9.03       | 0.24           |
| 2017/02/12 10:30 | 2.32       | 9.03       | 0.24           |
| 2017/02/12 10:45 | 2.32       | 9.03       | 0.24           |
| 2017/02/12 11:00 | 2.11       | 7.22       | 0.22           |
| 2017/02/12 11:15 | 2.00       | 6.32       | 0.21           |
| 2017/02/12 11:30 | 1.94       | 7.36       | 0.25           |
| 2017/02/12 11:45 | 1.79       | 6.53       | 0.25           |
| 2017/02/12 12:00 | 1.79       | 6.53       | 0.25           |
| 2017/02/12 12:15 | 1.79       | 6.53       | 0.25           |
| 2017/02/12 12:30 | 1.65       | 5.83       | 0.25           |
| 2017/02/12 12:45 | 1.65       | 5.83       | 0.25           |
| 2017/02/12 13:00 | 1.65       | 5.83       | 0.25           |
| 2017/02/12 13:15 | 1.87       | 30.00      | 1.08           |
| 2017/02/12 13:30 | 2.03       | 43.47      | 1.39           |
| 2017/02/12 13:45 | 2.12       | 7.08       | 0.21           |
| 2017/02/12 14:00 | 2.16       | 7.92       | 0.23           |
| 2017/02/12 14:15 | 2.18       | 7.99       | 0.23           |
| 2017/02/12 14:30 | 2.18       | 7.57       | 0.22           |
| 2017/02/12 14:45 | 2.18       | 7.57       | 0.22           |
| 2017/02/12 15:00 | 2.29       | 8.61       | 0.23           |
| 2017/02/12 15:15 | 2.21       | 7.92       | 0.22           |
| 2017/02/12 15:30 | 2.32       | 8.82       | 0.23           |
| 2017/02/12 15:45 | 2.32       | 9.03       | 0.24           |
| 2017/02/12 16:00 | 2.21       | 8.75       | 0.25           |
| 2017/02/12 16:15 | 2.19       | 8.68       | 0.25           |
| 2017/02/12 16:30 | 2.14       | 9.03       | 0.27           |
| 2017/02/12 16:45 | 2.00       | 8.19       | 0.27           |
| 2017/02/12 17:00 | 2.00       | 8.19       | 0.27           |
| 2017/02/12 17:15 | 2.00       | 45.83      | 1.50           |
| 2017/02/12 17:30 | 2.11       | 49.65      | 1.50           |
| 2017/02/12 17:45 | 1.96       | 44.65      | 1.50           |
| 2017/02/12 18:00 | 2.11       | 53.89      | 1.63           |
| 2017/02/12 18:15 | 1.96       | 44.65      | 1.50           |
| 2017/02/12 18:30 | 1.89       | 40.76      | 1.45           |
| 2017/02/12 18:45 | 1.84       | 39.03      | 1.43           |
| 2017/02/12 19:00 | 1.69       | 31.67      | 1.31           |
| 2017/02/12 19:15 | 1.69       | 31.67      | 1.31           |
| 2017/02/12 19:30 | 1.69       | 6.04       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 19:45 | 1.73       | 6.25       | 0.25           |
| 2017/02/12 20:00 | 1.76       | 6.39       | 0.25           |
| 2017/02/12 20:15 | 1.76       | 6.39       | 0.25           |
| 2017/02/12 20:30 | 1.89       | 7.08       | 0.25           |
| 2017/02/12 20:45 | 1.89       | 7.08       | 0.25           |
| 2017/02/12 21:00 | 1.79       | 6.53       | 0.25           |
| 2017/02/12 21:15 | 1.79       | 6.53       | 0.25           |
| 2017/02/12 21:30 | 1.83       | 6.74       | 0.25           |
| 2017/02/12 21:45 | 1.83       | 141.81     | 5.25           |
| 2017/02/12 22:00 | 1.83       | 112.08     | 4.15           |
| 2017/02/12 22:15 | 1.83       | 98.19      | 3.63           |
| 2017/02/12 22:30 | 1.83       | 120.00     | 4.44           |
| 2017/02/12 22:45 | 1.84       | 121.32     | 4.44           |
| 2017/02/12 23:00 | 1.84       | 121.32     | 4.44           |
| 2017/02/12 23:15 | 1.97       | 145.28     | 4.85           |
| 2017/02/12 23:30 | 1.97       | 145.28     | 4.85           |
| 2017/02/12 23:45 | 1.97       | 145.28     | 4.85           |
| 2017/02/13 00:00 | 1.72       | 104.65     | 4.23           |
| 2017/02/13 00:15 | 1.62       | 90.90      | 3.99           |
| 2017/02/13 00:30 | 1.62       | 5.69       | 0.25           |
| 2017/02/13 00:45 | 1.66       | 5.90       | 0.25           |
| 2017/02/13 01:00 | 1.66       | 5.90       | 0.25           |
| 2017/02/13 01:15 | 1.66       | 5.90       | 0.25           |
| 2017/02/13 01:30 | 1.66       | 5.90       | 0.25           |
| 2017/02/13 01:45 | 1.53       | 5.21       | 0.25           |
| 2017/02/13 02:00 | 1.47       | 4.93       | 0.25           |
| 2017/02/13 02:15 | 1.46       | 4.86       | 0.25           |
| 2017/02/13 02:30 | 1.44       | 4.79       | 0.25           |
| 2017/02/13 02:45 | 1.44       | 4.79       | 0.25           |
| 2017/02/13 03:00 | 1.44       | 4.79       | 0.25           |
| 2017/02/13 03:15 | 1.44       | 4.79       | 0.25           |
| 2017/02/13 03:30 | 1.44       | 4.79       | 0.25           |
| 2017/02/13 03:45 | 1.44       | 4.79       | 0.25           |
| 2017/02/13 04:00 | 1.44       | 4.79       | 0.25           |
| 2017/02/13 04:15 | 1.44       | 4.79       | 0.25           |
| 2017/02/13 04:30 | 1.43       | 4.72       | 0.25           |
| 2017/02/13 04:45 | 1.43       | 4.72       | 0.25           |
| 2017/02/13 05:00 | 1.41       | 4.65       | 0.25           |
| 2017/02/13 05:15 | 1.41       | 4.65       | 0.25           |
| 2017/02/13 05:30 | 1.43       | 4.72       | 0.25           |
| 2017/02/13 05:45 | 1.47       | 4.93       | 0.25           |
| 2017/02/13 06:00 | 1.53       | 5.21       | 0.25           |
| 2017/02/13 06:15 | 1.72       | 6.18       | 0.25           |
| 2017/02/13 06:30 | 1.72       | 6.18       | 0.25           |
| 2017/02/13 06:45 | 1.76       | 6.39       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 07:00 | 1.76       | 6.39       | 0.25           |
| 2017/02/13 07:15 | 1.76       | 6.39       | 0.25           |
| 2017/02/13 07:30 | 1.72       | 6.18       | 0.25           |
| 2017/02/13 07:45 | 1.72       | 6.18       | 0.25           |
| 2017/02/13 08:00 | 1.72       | 6.18       | 0.25           |
| 2017/02/13 08:15 | 1.73       | 19.79      | 0.79           |
| 2017/02/13 08:30 | 1.73       | 18.40      | 0.74           |
| 2017/02/13 08:45 | 1.96       | 27.36      | 0.92           |
| 2017/02/13 09:00 | 2.08       | 25.97      | 0.80           |
| 2017/02/13 09:15 | 2.11       | 26.46      | 0.80           |
| 2017/02/13 09:30 | 2.18       | 28.61      | 0.83           |
| 2017/02/13 09:45 | 2.18       | 28.96      | 0.84           |
| 2017/02/13 10:00 | 2.18       | 28.61      | 0.83           |
| 2017/02/13 10:15 | 2.18       | 28.61      | 0.83           |
| 2017/02/13 10:30 | 2.04       | 24.72      | 0.79           |
| 2017/02/13 10:45 | 2.04       | 24.72      | 0.79           |
| 2017/02/13 11:00 | 1.98       | 7.57       | 0.25           |
| 2017/02/13 11:15 | 1.98       | 7.57       | 0.25           |
| 2017/02/13 11:30 | 1.98       | 7.57       | 0.25           |
| 2017/02/13 11:45 | 2.01       | 7.71       | 0.25           |
| 2017/02/13 12:00 | 1.96       | 14.93      | 0.50           |
| 2017/02/13 12:15 | 2.01       | 17.50      | 0.57           |
| 2017/02/13 12:30 | 2.01       | 15.90      | 0.51           |
| 2017/02/13 12:45 | 1.97       | 15.35      | 0.51           |
| 2017/02/13 13:00 | 1.97       | 15.42      | 0.51           |
| 2017/02/13 13:15 | 2.03       | 17.36      | 0.56           |
| 2017/02/13 13:30 | 2.03       | 17.36      | 0.56           |
| 2017/02/13 13:45 | 2.12       | 56.11      | 1.68           |
| 2017/02/13 14:00 | 2.12       | 56.11      | 1.68           |
| 2017/02/13 14:15 | 2.03       | 52.50      | 1.68           |
| 2017/02/13 14:30 | 2.03       | 52.50      | 1.68           |
| 2017/02/13 14:45 | 1.93       | 46.39      | 1.60           |
| 2017/02/13 15:00 | 1.62       | 30.07      | 1.32           |
| 2017/02/13 15:15 | 1.62       | 30.07      | 1.32           |
| 2017/02/13 15:30 | 1.62       | 30.07      | 1.32           |
| 2017/02/13 15:45 | 1.86       | 41.74      | 1.51           |
| 2017/02/13 16:00 | 1.86       | 6.87       | 0.25           |
| 2017/02/13 16:15 | 2.14       | 8.40       | 0.25           |
| 2017/02/13 16:30 | 1.86       | 19.31      | 0.70           |
| 2017/02/13 16:45 | 1.82       | 16.94      | 0.63           |
| 2017/02/13 17:00 | 1.79       | 52.43      | 2.00           |
| 2017/02/13 17:15 | 1.82       | 55.49      | 2.08           |
| 2017/02/13 17:30 | 1.82       | 53.54      | 2.00           |
| 2017/02/13 17:45 | 1.79       | 52.43      | 2.00           |
| 2017/02/13 18:00 | 1.84       | 54.72      | 2.00           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 18:15 | 1.93       | 45.28      | 1.56           |
| 2017/02/13 18:30 | 2.00       | 38.06      | 1.25           |
| 2017/02/13 18:45 | 2.00       | 37.78      | 1.24           |
| 2017/02/13 19:00 | 2.00       | 37.78      | 1.24           |
| 2017/02/13 19:15 | 1.97       | 36.53      | 1.22           |
| 2017/02/13 19:30 | 1.97       | 36.53      | 1.22           |
| 2017/02/13 19:45 | 1.97       | 36.53      | 1.22           |
| 2017/02/13 20:00 | 1.97       | 36.67      | 1.22           |
| 2017/02/13 20:15 | 1.97       | 36.67      | 1.22           |
| 2017/02/13 20:30 | 1.97       | 36.67      | 1.22           |
| 2017/02/13 20:45 | 1.84       | 20.83      | 0.76           |
| 2017/02/13 21:00 | 1.80       | 18.06      | 0.68           |
| 2017/02/13 21:15 | 1.80       | 18.06      | 0.68           |
| 2017/02/13 21:30 | 1.80       | 18.06      | 0.68           |
| 2017/02/13 21:45 | 1.90       | 19.93      | 0.70           |
| 2017/02/13 22:00 | 1.90       | 19.93      | 0.70           |
| 2017/02/13 22:15 | 1.90       | 19.93      | 0.70           |
| 2017/02/13 22:30 | 1.75       | 16.18      | 0.64           |
| 2017/02/13 22:45 | 1.75       | 16.18      | 0.64           |
| 2017/02/13 23:00 | 1.75       | 16.18      | 0.64           |
| 2017/02/13 23:15 | 2.05       | 23.89      | 0.75           |
| 2017/02/13 23:30 | 2.12       | 168.06     | 5.05           |
| 2017/02/13 23:45 | 2.12       | 168.06     | 5.05           |
| 2017/02/14 00:00 | 2.12       | 168.06     | 5.05           |
| 2017/02/14 00:15 | 2.12       | 168.06     | 5.05           |
| 2017/02/14 00:30 | 2.15       | 173.54     | 5.12           |
| 2017/02/14 00:45 | 2.22       | 188.75     | 5.32           |
| 2017/02/14 01:00 | 2.22       | 188.75     | 5.32           |
| 2017/02/14 01:15 | 2.22       | 188.75     | 5.32           |
| 2017/02/14 01:30 | 2.01       | 148.96     | 4.82           |
| 2017/02/14 01:45 | 1.83       | 6.74       | 0.25           |
| 2017/02/14 02:00 | 1.83       | 6.74       | 0.25           |
| 2017/02/14 02:15 | 1.83       | 6.74       | 0.25           |
| 2017/02/14 02:30 | 1.87       | 6.94       | 0.25           |
| 2017/02/14 02:45 | 1.87       | 6.94       | 0.25           |
| 2017/02/14 03:00 | 1.87       | 6.94       | 0.25           |
| 2017/02/14 03:15 | 1.79       | 6.53       | 0.25           |
| 2017/02/14 03:30 | 1.79       | 6.53       | 0.25           |
| 2017/02/14 03:45 | 1.79       | 6.53       | 0.25           |
| 2017/02/14 04:00 | 1.66       | 5.90       | 0.25           |
| 2017/02/14 04:15 | 1.66       | 5.90       | 0.25           |
| 2017/02/14 04:30 | 1.66       | 5.90       | 0.25           |
| 2017/02/14 04:45 | 1.51       | 5.14       | 0.25           |
| 2017/02/14 05:00 | 1.47       | 4.93       | 0.25           |
| 2017/02/14 05:15 | 1.46       | 4.86       | 0.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 05:30 | 1.44       | 4.79       | 0.25           |
| 2017/02/14 05:45 | 1.46       | 4.86       | 0.25           |
| 2017/02/14 06:00 | 1.44       | 4.79       | 0.25           |
| 2017/02/14 06:15 | 1.44       | 4.79       | 0.25           |
| 2017/02/14 06:30 | 1.41       | 4.65       | 0.25           |
| 2017/02/14 06:45 | 1.41       | 4.65       | 0.25           |
| 2017/02/14 07:00 | 1.41       | 4.65       | 0.25           |
| 2017/02/14 07:15 | 1.96       | 7.43       | 0.25           |
| 2017/02/14 07:30 | 2.01       | 7.71       | 0.25           |
| 2017/02/14 07:45 | 2.21       | 8.82       | 0.25           |
| 2017/02/14 08:00 | 2.21       | 14.86      | 0.42           |
| 2017/02/14 08:15 | 2.23       | 19.93      | 0.56           |
| 2017/02/14 08:30 | 2.21       | 16.39      | 0.47           |
| 2017/02/14 08:45 | 2.09       | 12.92      | 0.40           |
| 2017/02/14 09:00 | 1.91       | 12.15      | 0.42           |
| 2017/02/14 09:15 | 1.96       | 12.85      | 0.43           |
| 2017/02/14 09:30 | 1.96       | 12.85      | 0.43           |
| 2017/02/14 09:45 | 1.96       | 12.85      | 0.43           |
| 2017/02/14 10:00 | 2.19       | 16.87      | 0.48           |
| 2017/02/14 10:15 | 2.19       | 16.87      | 0.48           |
| 2017/02/14 10:30 | 2.19       | 16.87      | 0.48           |
| 2017/02/14 10:45 | 2.07       | 13.96      | 0.43           |
| 2017/02/14 11:00 | 2.07       | 12.71      | 0.40           |
| 2017/02/14 11:15 | 1.97       | 11.87      | 0.40           |
| 2017/02/14 11:30 | 1.84       | 9.51       | 0.35           |
| 2017/02/14 11:45 | 1.73       | 8.19       | 0.33           |
| 2017/02/14 12:00 | 1.73       | 8.19       | 0.33           |
| 2017/02/14 12:15 | 1.73       | 8.19       | 0.33           |
| 2017/02/14 12:30 | 1.78       | 8.54       | 0.33           |
| 2017/02/14 12:45 | 1.82       | 9.03       | 0.34           |
| 2017/02/14 13:00 | 2.08       | 12.57      | 0.39           |
| 2017/02/14 13:15 | 2.08       | 8.12       | 0.25           |
| 2017/02/14 13:30 | 2.08       | 8.12       | 0.25           |
| 2017/02/14 13:45 | 2.08       | 10.69      | 0.33           |
| 2017/02/14 14:00 | 1.79       | 8.19       | 0.31           |
| 2017/02/14 14:15 | 1.79       | 8.75       | 0.34           |
| 2017/02/14 14:30 | 1.79       | 94.24      | 3.60           |
| 2017/02/14 14:45 | 1.79       | 8.75       | 0.34           |
| 2017/02/14 15:00 | 1.82       | 96.32      | 3.60           |
| 2017/02/14 15:15 | 2.03       | 149.03     | 4.78           |
| 2017/02/14 15:30 | 2.03       | 149.03     | 4.78           |
| 2017/02/14 15:45 | 2.03       | 149.03     | 4.78           |
| 2017/02/14 16:00 | 1.86       | 119.65     | 4.33           |
| 2017/02/14 16:15 | 1.84       | 117.50     | 4.30           |
| 2017/02/14 16:30 | 1.84       | 117.50     | 4.30           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 16:45 | 1.86       | 119.65     | 4.33           |
| 2017/02/14 17:00 | 2.12       | 164.65     | 4.95           |
| 2017/02/14 17:15 | 2.12       | 8.33       | 0.25           |
| 2017/02/14 17:30 | 2.12       | 8.33       | 0.25           |
| 2017/02/14 17:45 | 2.14       | 8.40       | 0.25           |
| 2017/02/14 18:00 | 2.14       | 8.40       | 0.25           |
| 2017/02/14 18:15 | 2.07       | 7.99       | 0.25           |
| 2017/02/14 18:30 | 2.08       | 8.12       | 0.25           |
| 2017/02/14 18:45 | 2.08       | 8.12       | 0.25           |
| 2017/02/14 19:00 | 2.04       | 7.85       | 0.25           |
| 2017/02/14 19:15 | 2.03       | 7.78       | 0.25           |
| 2017/02/14 19:30 | 1.97       | 7.50       | 0.25           |
| 2017/02/14 19:45 | 1.91       | 7.22       | 0.25           |
| 2017/02/14 20:00 | 1.80       | 6.60       | 0.25           |
| 2017/02/14 20:15 | 1.91       | 7.22       | 0.25           |
| 2017/02/14 20:30 | 1.80       | 6.60       | 0.25           |
| 2017/02/14 20:45 | 1.80       | 6.60       | 0.25           |
| 2017/02/14 21:00 | 1.80       | 6.60       | 0.25           |
| 2017/02/14 21:15 | 1.69       | 6.04       | 0.25           |
| 2017/02/14 21:30 | 1.69       | 6.04       | 0.25           |
| 2017/02/14 21:45 | 1.69       | 6.04       | 0.25           |
| 2017/02/14 22:00 | 1.69       | 6.04       | 0.25           |
| 2017/02/14 22:15 | 1.98       | 7.57       | 0.25           |
| 2017/02/14 22:30 | 2.00       | 7.64       | 0.25           |
| 2017/02/14 22:45 | 2.08       | 8.12       | 0.25           |
| 2017/02/14 23:00 | 2.08       | 8.12       | 0.25           |
| 2017/02/14 23:15 | 2.19       | 8.68       | 0.25           |
| 2017/02/14 23:30 | 2.22       | 8.89       | 0.25           |
| 2017/02/14 23:45 | 2.08       | 8.12       | 0.25           |
| 2017/02/15 00:00 | 2.04       | 7.85       | 0.25           |
| 2017/02/15 00:15 | 1.96       | 7.43       | 0.25           |
| 2017/02/15 00:30 | 1.93       | 7.29       | 0.25           |
| 2017/02/15 00:45 | 1.93       | 7.29       | 0.25           |
| 2017/02/15 01:00 | 1.93       | 7.29       | 0.25           |
| 2017/02/15 01:15 | 1.93       | 7.29       | 0.25           |
| 2017/02/15 01:30 | 1.93       | 7.29       | 0.25           |
| 2017/02/15 01:45 | 1.91       | 7.22       | 0.25           |
| 2017/02/15 02:00 | 1.89       | 146.25     | 5.19           |
| 2017/02/15 02:15 | 1.86       | 143.19     | 5.19           |
| 2017/02/15 02:30 | 1.84       | 141.74     | 5.19           |
| 2017/02/15 02:45 | 1.84       | 141.81     | 5.19           |
| 2017/02/15 03:00 | 1.84       | 141.74     | 5.19           |
| 2017/02/15 03:15 | 1.84       | 141.81     | 5.19           |
| 2017/02/15 03:30 | 1.84       | 141.81     | 5.19           |
| 2017/02/15 03:45 | 1.86       | 144.17     | 5.22           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 04:00 | 1.87       | 146.81     | 5.26           |
| 2017/02/15 04:15 | 1.87       | 146.81     | 5.26           |
| 2017/02/15 04:30 | 1.87       | 146.81     | 5.26           |
| 2017/02/15 04:45 | 1.87       | 6.94       | 0.25           |
| 2017/02/15 05:00 | 1.89       | 7.08       | 0.25           |
| 2017/02/15 05:15 | 1.89       | 7.08       | 0.25           |
| 2017/02/15 05:30 | 1.89       | 7.08       | 0.25           |
| 2017/02/15 05:45 | 1.89       | 7.08       | 0.25           |
| 2017/02/15 06:00 | 1.89       | 7.08       | 0.25           |
| 2017/02/15 06:15 | 1.89       | 7.08       | 0.25           |
| 2017/02/15 06:30 | 1.91       | 7.22       | 0.25           |
| 2017/02/15 06:45 | 1.91       | 151.87     | 5.28           |
| 2017/02/15 07:00 | 1.91       | 129.03     | 4.48           |
| 2017/02/15 07:15 | 2.19       | 191.94     | 5.51           |
| 2017/02/15 07:30 | 2.19       | 185.69     | 5.33           |
| 2017/02/15 07:45 | 2.21       | 187.29     | 5.33           |
| 2017/02/15 08:00 | 2.21       | 187.29     | 5.33           |
| 2017/02/15 08:15 | 2.21       | 187.29     | 5.33           |
| 2017/02/15 08:30 | 2.19       | 179.37     | 5.15           |
| 2017/02/15 08:45 | 2.15       | 159.93     | 4.72           |
| 2017/02/15 09:00 | 2.14       | 7.15       | 0.21           |
| 2017/02/15 09:15 | 2.14       | 7.08       | 0.21           |
| 2017/02/15 09:30 | 2.14       | 6.94       | 0.21           |
| 2017/02/15 09:45 | 1.91       | 5.35       | 0.19           |
| 2017/02/15 10:00 | 1.89       | 5.21       | 0.18           |
| 2017/02/15 10:15 | 1.89       | 5.21       | 0.18           |
| 2017/02/15 10:30 | 1.89       | 5.07       | 0.18           |
| 2017/02/15 10:45 | 1.83       | 4.72       | 0.18           |
| 2017/02/15 11:00 | 1.89       | 5.07       | 0.18           |
| 2017/02/15 11:15 | 1.94       | 5.42       | 0.18           |
| 2017/02/15 11:30 | 1.83       | 5.35       | 0.20           |
| 2017/02/15 11:45 | 2.12       | 6.74       | 0.20           |
| 2017/02/15 12:00 | 2.12       | 8.19       | 0.25           |
| 2017/02/15 12:15 | 2.05       | 15.35      | 0.48           |
| 2017/02/15 12:30 | 2.05       | 16.67      | 0.52           |
| 2017/02/15 12:45 | 2.05       | 20.97      | 0.66           |
| 2017/02/15 13:00 | 2.00       | 24.24      | 0.79           |
| 2017/02/15 13:15 | 2.00       | 24.86      | 0.81           |
| 2017/02/15 13:30 | 2.07       | 27.01      | 0.84           |
| 2017/02/15 13:45 | 2.00       | 25.76      | 0.84           |
| 2017/02/15 14:00 | 2.00       | 25.76      | 0.84           |
| 2017/02/15 14:15 | 1.87       | 21.94      | 0.79           |
| 2017/02/15 14:30 | 1.68       | 16.60      | 0.70           |
| 2017/02/15 14:45 | 1.68       | 16.60      | 0.70           |
| 2017/02/15 15:00 | 1.68       | 16.60      | 0.70           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 15:15 | 1.90       | 22.43      | 0.79           |
| 2017/02/15 15:30 | 2.03       | 7.78       | 0.25           |
| 2017/02/15 15:45 | 2.03       | 7.78       | 0.25           |
| 2017/02/15 16:00 | 2.16       | 8.54       | 0.25           |
| 2017/02/15 16:15 | 2.26       | 9.10       | 0.25           |
| 2017/02/15 16:30 | 2.30       | 9.31       | 0.25           |
| 2017/02/15 16:45 | 2.30       | 9.31       | 0.25           |
| 2017/02/15 17:00 | 2.30       | 9.31       | 0.25           |
| 2017/02/15 17:15 | 2.16       | 8.54       | 0.25           |
| 2017/02/15 17:30 | 2.01       | 7.71       | 0.25           |
| 2017/02/15 17:45 | 1.96       | 7.43       | 0.25           |
| 2017/02/15 18:00 | 2.01       | 7.71       | 0.25           |
| 2017/02/15 18:15 | 2.01       | 7.71       | 0.25           |
| 2017/02/15 18:30 | 2.01       | 7.71       | 0.25           |
| 2017/02/15 18:45 | 2.05       | 115.49     | 3.63           |
| 2017/02/15 19:00 | 2.08       | 122.78     | 3.79           |
| 2017/02/15 19:15 | 2.07       | 105.21     | 3.28           |
| 2017/02/15 19:30 | 2.07       | 93.33      | 2.91           |
| 2017/02/15 19:45 | 2.07       | 105.21     | 3.28           |
| 2017/02/15 20:00 | 1.96       | 91.46      | 3.08           |
| 2017/02/15 20:15 | 1.96       | 91.46      | 3.08           |
| 2017/02/15 20:30 | 1.90       | 85.35      | 3.00           |
| 2017/02/15 20:45 | 1.96       | 91.46      | 3.08           |
| 2017/02/15 21:00 | 1.96       | 91.46      | 3.08           |
| 2017/02/15 21:15 | 1.90       | 85.35      | 3.00           |
| 2017/02/15 21:30 | 1.86       | 6.87       | 0.25           |
| 2017/02/15 21:45 | 1.71       | 6.11       | 0.25           |
| 2017/02/15 22:00 | 1.71       | 6.11       | 0.25           |
| 2017/02/15 22:15 | 1.68       | 15.62      | 0.65           |
| 2017/02/15 22:30 | 1.68       | 21.11      | 0.88           |
| 2017/02/15 22:45 | 1.71       | 19.24      | 0.79           |
| 2017/02/15 23:00 | 1.69       | 122.36     | 5.06           |
| 2017/02/15 23:15 | 1.82       | 23.61      | 0.88           |
| 2017/02/15 23:30 | 1.82       | 126.87     | 4.74           |
| 2017/02/15 23:45 | 1.82       | 135.42     | 5.06           |
| 2017/02/16 00:00 | 1.82       | 135.42     | 5.06           |
| 2017/02/16 00:15 | 1.82       | 132.08     | 4.94           |
| 2017/02/16 00:30 | 1.94       | 139.37     | 4.74           |
| 2017/02/16 00:45 | 1.94       | 137.01     | 4.66           |
| 2017/02/16 01:00 | 1.79       | 111.87     | 4.28           |
| 2017/02/16 01:15 | 1.62       | 87.29      | 3.83           |
| 2017/02/16 01:30 | 1.58       | 81.81      | 3.73           |
| 2017/02/16 01:45 | 1.53       | 75.00      | 3.60           |
| 2017/02/16 02:00 | 1.51       | 73.40      | 3.57           |
| 2017/02/16 02:15 | 1.50       | 71.74      | 3.54           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 02:30 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 02:45 | 1.44       | 4.79       | 0.25           |
| 2017/02/16 03:00 | 1.44       | 4.79       | 0.25           |
| 2017/02/16 03:15 | 1.43       | 4.72       | 0.25           |
| 2017/02/16 03:30 | 1.43       | 4.72       | 0.25           |
| 2017/02/16 03:45 | 1.41       | 4.65       | 0.25           |
| 2017/02/16 04:00 | 1.40       | 4.58       | 0.25           |
| 2017/02/16 04:15 | 1.40       | 4.58       | 0.25           |
| 2017/02/16 04:30 | 1.41       | 4.65       | 0.25           |
| 2017/02/16 04:45 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 05:00 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 05:15 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 05:30 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 05:45 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 06:00 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 06:15 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 06:30 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 06:45 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 07:00 | 1.48       | 5.00       | 0.25           |
| 2017/02/16 07:15 | 1.79       | 6.53       | 0.25           |
| 2017/02/16 07:30 | 1.79       | 132.71     | 5.07           |
| 2017/02/16 07:45 | 1.79       | 124.93     | 4.77           |
| 2017/02/16 08:00 | 1.79       | 7.78       | 0.30           |
| 2017/02/16 08:15 | 1.79       | 23.96      | 0.92           |
| 2017/02/16 08:30 | 1.97       | 32.22      | 1.08           |
| 2017/02/16 08:45 | 2.08       | 29.65      | 0.92           |
| 2017/02/16 09:00 | 2.25       | 28.47      | 0.79           |
| 2017/02/16 09:15 | 2.09       | 25.76      | 0.79           |
| 2017/02/16 09:30 | 2.09       | 23.96      | 0.73           |
| 2017/02/16 09:45 | 2.09       | 23.96      | 0.73           |
| 2017/02/16 10:00 | 2.09       | 23.96      | 0.73           |
| 2017/02/16 10:15 | 1.84       | 17.36      | 0.64           |
| 2017/02/16 10:30 | 1.84       | 17.36      | 0.64           |
| 2017/02/16 10:45 | 1.84       | 17.22      | 0.63           |
| 2017/02/16 11:00 | 1.73       | 14.93      | 0.60           |
| 2017/02/16 11:15 | 1.84       | 17.22      | 0.63           |
| 2017/02/16 11:30 | 1.98       | 20.62      | 0.68           |
| 2017/02/16 11:45 | 2.21       | 26.94      | 0.77           |
| 2017/02/16 12:00 | 2.21       | 28.75      | 0.82           |
| 2017/02/16 12:15 | 2.21       | 28.75      | 0.82           |
| 2017/02/16 12:30 | 2.21       | 37.08      | 1.06           |
| 2017/02/16 12:45 | 2.25       | 38.12      | 1.06           |
| 2017/02/16 13:00 | 1.97       | 22.29      | 0.74           |
| 2017/02/16 13:15 | 1.91       | 8.82       | 0.31           |
| 2017/02/16 13:30 | 1.98       | 8.06       | 0.27           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 13:45 | 1.91       | 7.43       | 0.26           |
| 2017/02/16 14:00 | 1.73       | 5.76       | 0.23           |
| 2017/02/16 14:15 | 1.89       | 7.08       | 0.25           |
| 2017/02/16 14:30 | 1.91       | 7.43       | 0.26           |
| 2017/02/16 14:45 | 1.90       | 7.22       | 0.25           |
| 2017/02/16 15:00 | 1.89       | 7.08       | 0.25           |
| 2017/02/16 15:15 | 1.90       | 7.22       | 0.25           |
| 2017/02/16 15:30 | 2.05       | 7.92       | 0.25           |
| 2017/02/16 15:45 | 1.91       | 20.28      | 0.70           |
| 2017/02/16 16:00 | 2.05       | 26.39      | 0.83           |
| 2017/02/16 16:15 | 2.05       | 22.99      | 0.72           |
| 2017/02/16 16:30 | 1.96       | 20.62      | 0.69           |
| 2017/02/16 16:45 | 1.96       | 21.46      | 0.72           |
| 2017/02/16 17:00 | 1.96       | 21.46      | 0.72           |
| 2017/02/16 17:15 | 1.96       | 21.46      | 0.72           |
| 2017/02/16 17:30 | 1.94       | 20.42      | 0.69           |
| 2017/02/16 17:45 | 2.01       | 18.12      | 0.59           |
| 2017/02/16 18:00 | 2.01       | 9.17       | 0.30           |
| 2017/02/16 18:15 | 2.11       | 9.58       | 0.29           |
| 2017/02/16 18:30 | 2.01       | 8.47       | 0.27           |
| 2017/02/16 18:45 | 2.01       | 8.47       | 0.27           |
| 2017/02/16 19:00 | 2.05       | 8.75       | 0.27           |
| 2017/02/16 19:15 | 2.01       | 7.36       | 0.24           |
| 2017/02/16 19:30 | 1.91       | 6.46       | 0.22           |
| 2017/02/16 19:45 | 1.80       | 5.56       | 0.21           |
| 2017/02/16 20:00 | 1.80       | 5.14       | 0.19           |
| 2017/02/16 20:15 | 1.61       | 3.82       | 0.17           |
| 2017/02/16 20:30 | 1.58       | 3.68       | 0.17           |
| 2017/02/16 20:45 | 1.53       | 3.40       | 0.16           |
| 2017/02/16 21:00 | 1.53       | 3.40       | 0.16           |
| 2017/02/16 21:15 | 1.53       | 3.40       | 0.16           |
| 2017/02/16 21:30 | 1.53       | 3.40       | 0.16           |
| 2017/02/16 21:45 | 1.46       | 4.86       | 0.25           |
| 2017/02/16 22:00 | 1.46       | 4.86       | 0.25           |
| 2017/02/16 22:15 | 1.46       | 4.86       | 0.25           |
| 2017/02/16 22:30 | 1.73       | 6.25       | 0.25           |
| 2017/02/16 22:45 | 2.05       | 165.49     | 5.21           |
| 2017/02/16 23:00 | 2.05       | 155.83     | 4.90           |
| 2017/02/16 23:15 | 2.05       | 155.83     | 4.90           |
| 2017/02/16 23:30 | 2.05       | 168.19     | 5.29           |
| 2017/02/16 23:45 | 2.05       | 165.49     | 5.21           |
| 2017/02/17 00:00 | 2.12       | 176.25     | 5.29           |
| 2017/02/17 00:15 | 2.21       | 194.37     | 5.53           |
| 2017/02/17 00:30 | 2.21       | 194.37     | 5.53           |
| 2017/02/17 00:45 | 2.21       | 194.37     | 5.53           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/17 01:00 | 1.73       | 106.53     | 4.26           |
| 2017/02/17 01:15 | 1.53       | 77.22      | 3.71           |
| 2017/02/17 01:30 | 1.47       | 70.49      | 3.57           |
| 2017/02/17 01:45 | 1.47       | 70.49      | 3.57           |
| 2017/02/17 02:00 | 1.46       | 68.89      | 3.54           |
| 2017/02/17 02:15 | 1.41       | 4.65       | 0.25           |
| 2017/02/17 02:30 | 1.41       | 4.65       | 0.25           |
| 2017/02/17 02:45 | 1.41       | 4.65       | 0.25           |
| 2017/02/17 03:00 | 1.41       | 4.65       | 0.25           |
| 2017/02/17 03:15 | 1.41       | 4.65       | 0.25           |
| 2017/02/17 03:30 | 1.40       | 4.58       | 0.25           |
| 2017/02/17 03:45 | 1.40       | 4.58       | 0.25           |
| 2017/02/17 04:00 | 1.40       | 4.58       | 0.25           |
| 2017/02/17 04:15 | 1.40       | 4.58       | 0.25           |
| 2017/02/17 04:30 | 1.53       | 5.21       | 0.25           |
| 2017/02/17 04:45 | 1.54       | 5.28       | 0.25           |
| 2017/02/17 05:00 | 1.58       | 5.49       | 0.25           |
| 2017/02/17 05:15 | 1.71       | 6.11       | 0.25           |
| 2017/02/17 05:30 | 1.78       | 6.46       | 0.25           |
| 2017/02/17 05:45 | 1.84       | 6.81       | 0.25           |
| 2017/02/17 06:00 | 1.86       | 6.87       | 0.25           |
| 2017/02/17 06:15 | 1.86       | 6.87       | 0.25           |
| 2017/02/17 06:30 | 1.86       | 6.87       | 0.25           |
| 2017/02/17 06:45 | 1.82       | 6.67       | 0.25           |
| 2017/02/17 07:00 | 1.80       | 6.60       | 0.25           |
| 2017/02/17 07:15 | 1.71       | 6.11       | 0.25           |
| 2017/02/17 07:30 | 1.71       | 6.11       | 0.25           |
| 2017/02/17 07:45 | 1.71       | 6.11       | 0.25           |
| 2017/02/17 08:00 | 1.73       | 6.25       | 0.25           |
| 2017/02/17 08:15 | 2.14       | 7.92       | 0.23           |
| 2017/02/17 08:30 | 2.26       | 12.29      | 0.34           |
| 2017/02/17 08:45 | 2.26       | 17.57      | 0.48           |
| 2017/02/17 09:00 | 2.26       | 15.49      | 0.43           |
| 2017/02/17 09:15 | 2.26       | 15.00      | 0.41           |
| 2017/02/17 09:30 | 2.11       | 13.61      | 0.41           |
| 2017/02/17 09:45 | 2.05       | 13.12      | 0.41           |
| 2017/02/17 10:00 | 1.80       | 9.10       | 0.34           |
| 2017/02/17 10:15 | 1.80       | 9.10       | 0.34           |
| 2017/02/17 10:30 | 1.80       | 9.10       | 0.34           |
| 2017/02/17 10:45 | 1.93       | 22.43      | 0.77           |
| 2017/02/17 11:00 | 2.04       | 25.76      | 0.82           |
| 2017/02/17 11:15 | 2.04       | 25.76      | 0.82           |



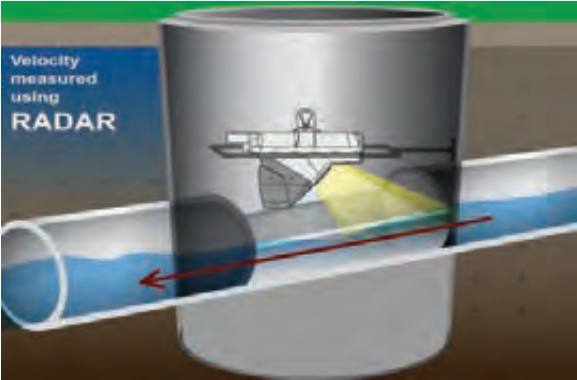
# Site Report

02-15-2017

**Confidential Proprietary Information**

|                                           |  |                                                                                             |  |
|-------------------------------------------|--|---------------------------------------------------------------------------------------------|--|
| David Evans                               |  | ~1911 Powers St                                                                             |  |
| 2017.01-02 Site 2 Powers St MH            |  | Manhole No. 0504D                                                                           |  |
| Access:<br>Manhole in private drive aisle |  | System Type:<br>Sanitary <input checked="" type="checkbox"/> Storm <input type="checkbox"/> |  |
|                                           |  | Install Date: 1/18/2017                                                                     |  |

| <div style="text-align: center; margin-bottom: 10px;">Map</div>  <div style="text-align: center; margin-bottom: 10px;">Technology</div>  <div style="text-align: center; margin-bottom: 10px;">Sewer Plan</div>  | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4" style="background-color: #d3d3d3;">Flow Meter</th> </tr> <tr> <td colspan="4">Meter Depth: 64"</td> </tr> <tr> <td colspan="4">Map Coordinates: 33.867893, -118.398648</td> </tr> <tr> <td colspan="4">Moderate open channel hydraulics</td> </tr> <tr> <th>Avg Velocity</th> <th>Avg Measured Level</th> <th colspan="2">Multiplier</th> </tr> <tr> <td>2.25 fps</td> <td>2.5"</td> <td colspan="2">1</td> </tr> <tr> <th colspan="4" style="background-color: #d3d3d3;">Gas</th> </tr> <tr> <th>O2</th> <th>H2S</th> <th>CO</th> <th>LEL</th> </tr> <tr> <td>20.9</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <th colspan="4" style="background-color: #d3d3d3;">Notes</th> </tr> <tr> <td colspan="4">Could not open MH 0503, so upstream MH was used, which had noticeable root intrusion.</td> </tr> <tr> <th colspan="4" style="background-color: #d3d3d3;">Traffic Safety</th> </tr> <tr> <td colspan="4">No traffic near MH during installation or removal.</td> </tr> <tr> <th colspan="4" style="background-color: #d3d3d3;">Land Use</th> </tr> <tr> <th>Residential</th> <th>Commercial</th> <th>Industrial</th> <th>Trunk</th> </tr> <tr> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Manhole Depth</td> <td colspan="2">86"</td> </tr> <tr> <td colspan="2">Monitored Pipe Size</td> <td colspan="2">15"</td> </tr> <tr> <td colspan="2">Inner Pipe Size (In/Out)</td> <td colspan="2">15"/15"</td> </tr> <tr> <td colspan="2">Pipe Shape</td> <td colspan="2">Round</td> </tr> <tr> <td colspan="2">Pipe Condition</td> <td colspan="2">Fair</td> </tr> <tr> <td colspan="2">Manhole Material</td> <td colspan="2">Brick</td> </tr> <tr> <td colspan="2">Silt</td> <td colspan="2">0</td> </tr> <tr> <td colspan="2">Velocity Profile Data</td> <td colspan="2">*</td> </tr> <tr> <td colspan="2">Velocity Profile Taken</td> <td colspan="2">0.4 2-D</td> </tr> <tr> <td colspan="2">Sensor Offset</td> <td colspan="2">22.19"</td> </tr> <tr> <td colspan="2">Sensor Dist. to Crown</td> <td colspan="2">7.19"</td> </tr> <tr> <td colspan="2">Sensor Direction</td> <td colspan="2">Upstream</td> </tr> <tr> <td colspan="2">Flow Heading</td> <td colspan="2">South</td> </tr> </table> | Flow Meter |       |  |  | Meter Depth: 64" |  |  |  | Map Coordinates: 33.867893, -118.398648 |  |  |  | Moderate open channel hydraulics |  |  |  | Avg Velocity | Avg Measured Level | Multiplier |  | 2.25 fps | 2.5" | 1 |  | Gas |  |  |  | O2 | H2S | CO | LEL | 20.9 | 0 | 0 | 0 | Notes |  |  |  | Could not open MH 0503, so upstream MH was used, which had noticeable root intrusion. |  |  |  | Traffic Safety |  |  |  | No traffic near MH during installation or removal. |  |  |  | Land Use |  |  |  | Residential | Commercial | Industrial | Trunk | X |  |  |  | Manhole Depth |  | 86" |  | Monitored Pipe Size |  | 15" |  | Inner Pipe Size (In/Out) |  | 15"/15" |  | Pipe Shape |  | Round |  | Pipe Condition |  | Fair |  | Manhole Material |  | Brick |  | Silt |  | 0 |  | Velocity Profile Data |  | * |  | Velocity Profile Taken |  | 0.4 2-D |  | Sensor Offset |  | 22.19" |  | Sensor Dist. to Crown |  | 7.19" |  | Sensor Direction |  | Upstream |  | Flow Heading |  | South |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|--|--|------------------|--|--|--|-----------------------------------------|--|--|--|----------------------------------|--|--|--|--------------|--------------------|------------|--|----------|------|---|--|-----|--|--|--|----|-----|----|-----|------|---|---|---|-------|--|--|--|---------------------------------------------------------------------------------------|--|--|--|----------------|--|--|--|----------------------------------------------------|--|--|--|----------|--|--|--|-------------|------------|------------|-------|---|--|--|--|---------------|--|-----|--|---------------------|--|-----|--|--------------------------|--|---------|--|------------|--|-------|--|----------------|--|------|--|------------------|--|-------|--|------|--|---|--|-----------------------|--|---|--|------------------------|--|---------|--|---------------|--|--------|--|-----------------------|--|-------|--|------------------|--|----------|--|--------------|--|-------|--|
| Flow Meter                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Meter Depth: 64"                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Map Coordinates: 33.867893, -118.398648                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Moderate open channel hydraulics                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Avg Velocity                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Avg Measured Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Multiplier |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| 2.25 fps                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.5"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1          |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Gas                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| O2                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H2S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CO         | LEL   |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| 20.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0          | 0     |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Could not open MH 0503, so upstream MH was used, which had noticeable root intrusion.                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Traffic Safety                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| No traffic near MH during installation or removal.                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Land Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Residential                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Commercial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Industrial | Trunk |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Manhole Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86"        |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Monitored Pipe Size                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15"        |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Inner Pipe Size (In/Out)                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15"/15"    |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Pipe Shape                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Round      |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Pipe Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fair       |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Manhole Material                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Brick      |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Silt                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0          |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Velocity Profile Data                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *          |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Velocity Profile Taken                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.4 2-D    |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Sensor Offset                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 22.19"     |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Sensor Dist. to Crown                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7.19"      |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Sensor Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Upstream   |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |
| Flow Heading                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | South      |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |      |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                                                                                       |  |  |  |                |  |  |  |                                                    |  |  |  |          |  |  |  |             |            |            |       |   |  |  |  |               |  |     |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |       |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |          |  |              |  |       |  |



## Meter Site Document

David Evans

2017.01-02 Site 2 Powers St MH

~1911 Powers St

Site



Manhole Hydraulics



Installation Process



Installed



MH 0504D



MH 0503







Utility Systems Science and Software

Report Date: 02/20/2017  
Customer: David Evans  
Group: Hermosa Beach  
SiteID: 2635

### Statistics for 2017.01-02 Site 2 Powers St MH: 01/19/2017 thru 02/16/2017

|              | Flow (GPM)    |                |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |              |             |                  |             |
|--------------|---------------|----------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|--------------|-------------|------------------|-------------|
| Date         | Avg           | Max            | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max          | Min         | Total Gal        | Rain        |
| 1/19/17      | 111.37        | 171.46         | 42.29        | 0.16        | 0.25        | 0.06        | 2.04           | 2.61        | 1.05        | 2.30           | 2.65         | 1.89        | 160,369          | 0.76        |
| 1/20/17      | 125.56        | 372.29         | 31.60        | 0.18        | 0.54        | 0.05        | 2.01           | 3.41        | 0.92        | 2.38           | 3.79         | 1.69        | 180,806          | 1.29        |
| 1/21/17      | 100.29        | 154.93         | 27.64        | 0.14        | 0.22        | 0.04        | 1.88           | 2.59        | 0.85        | 2.21           | 2.57         | 1.64        | 144,421          |             |
| 1/22/17      | 203.92        | 1601.73        | 38.26        | 0.29        | 2.31        | 0.06        | 2.04           | 3.31        | 1.07        | 3.14           | 15.36        | 1.75        | 293,638          | 3.72        |
| <b>Week:</b> | <b>135.28</b> | <b>1601.73</b> | <b>27.64</b> | <b>0.19</b> | <b>2.31</b> | <b>0.04</b> | <b>1.99</b>    | <b>3.41</b> | <b>0.85</b> | <b>2.51</b>    | <b>15.36</b> | <b>1.64</b> | <b>779,234</b>   | <b>5.77</b> |
| 1/23/17      | 108.93        | 201.87         | 28.96        | 0.16        | 0.29        | 0.04        | 1.93           | 2.78        | 0.86        | 2.29           | 2.84         | 1.66        | 156,858          | 0.13        |
| 1/24/17      | 98.62         | 155.90         | 36.25        | 0.14        | 0.22        | 0.05        | 1.79           | 2.51        | 0.99        | 2.28           | 2.55         | 1.75        | 142,018          |             |
| 1/25/17      | 97.92         | 159.37         | 37.57        | 0.14        | 0.23        | 0.05        | 1.79           | 2.60        | 0.98        | 2.27           | 2.53         | 1.78        | 141,002          |             |
| 1/26/17      | 93.22         | 137.43         | 39.65        | 0.13        | 0.20        | 0.06        | 1.73           | 2.32        | 1.03        | 2.26           | 2.50         | 1.83        | 134,239          |             |
| 1/27/17      | 103.44        | 184.79         | 33.12        | 0.15        | 0.27        | 0.05        | 1.87           | 2.75        | 0.90        | 2.27           | 2.69         | 1.78        | 148,954          |             |
| 1/28/17      | 99.84         | 169.51         | 39.58        | 0.14        | 0.24        | 0.06        | 1.83           | 2.66        | 1.04        | 2.27           | 2.59         | 1.82        | 143,765          |             |
| 1/29/17      | 99.43         | 161.87         | 30.83        | 0.14        | 0.23        | 0.04        | 1.83           | 2.60        | 0.91        | 2.24           | 2.55         | 1.68        | 143,175          |             |
| <b>Week:</b> | <b>100.20</b> | <b>201.87</b>  | <b>28.96</b> | <b>0.14</b> | <b>0.29</b> | <b>0.04</b> | <b>1.82</b>    | <b>2.78</b> | <b>0.86</b> | <b>2.27</b>    | <b>2.84</b>  | <b>1.66</b> | <b>1,010,010</b> | <b>0.13</b> |
| 1/30/17      | 107.53        | 187.15         | 30.07        | 0.15        | 0.27        | 0.04        | 1.91           | 2.73        | 0.86        | 2.29           | 2.73         | 1.72        | 154,844          |             |
| 1/31/17      | 102.44        | 185.83         | 36.11        | 0.15        | 0.27        | 0.05        | 1.83           | 2.71        | 0.97        | 2.29           | 2.73         | 1.79        | 147,520          |             |
| 2/1/17       | 104.58        | 182.57         | 35.83        | 0.15        | 0.26        | 0.05        | 1.88           | 2.64        | 0.97        | 2.29           | 2.75         | 1.79        | 150,588          |             |
| 2/2/17       | 107.49        | 177.64         | 32.01        | 0.15        | 0.26        | 0.05        | 1.92           | 2.67        | 0.89        | 2.29           | 2.68         | 1.75        | 154,779          |             |

|                | Flow (GPM)    |                |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |              |             |                  |             |
|----------------|---------------|----------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|--------------|-------------|------------------|-------------|
| Date           | Avg           | Max            | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max          | Min         | Total Gal        | Rain        |
| 2/3/17         | 105.43        | 196.53         | 33.19        | 0.15        | 0.28        | 0.05        | 1.58           | 2.73        | 0.93        | 2.62           | 3.29         | 1.73        | 151,818          | 0.39        |
| 2/4/17         | 109.32        | 191.87         | 33.12        | 0.16        | 0.28        | 0.05        | 1.46           | 2.08        | 0.66        | 2.78           | 3.37         | 2.15        | 157,414          |             |
| 2/5/17         | 107.26        | 195.90         | 37.08        | 0.15        | 0.28        | 0.05        | 1.31           | 1.99        | 0.72        | 2.98           | 3.80         | 2.25        | 154,448          |             |
| <b>Week:</b>   | <b>106.29</b> | <b>196.53</b>  | <b>30.07</b> | <b>0.15</b> | <b>0.28</b> | <b>0.04</b> | <b>1.70</b>    | <b>2.73</b> | <b>0.66</b> | <b>2.51</b>    | <b>3.80</b>  | <b>1.72</b> | <b>1,071,412</b> | <b>0.39</b> |
| 2/6/17         | 129.56        | 253.96         | 36.11        | 0.19        | 0.37        | 0.05        | 1.74           | 2.87        | 0.79        | 2.79           | 3.26         | 2.07        | 186,569          | 1.43        |
| 2/7/17         | 105.49        | 172.99         | 32.78        | 0.15        | 0.25        | 0.05        | 1.49           | 2.10        | 0.66        | 2.73           | 3.19         | 2.16        | 151,909          | 0.64        |
| 2/8/17         | 109.93        | 185.42         | 35.00        | 0.16        | 0.27        | 0.05        | 1.57           | 2.42        | 0.80        | 2.69           | 2.96         | 2.01        | 158,302          | 0.07        |
| 2/9/17         | 113.67        | 191.74         | 28.61        | 0.16        | 0.28        | 0.04        | 1.36           | 2.07        | 0.60        | 3.01           | 3.58         | 1.94        | 163,681          |             |
| 2/10/17        | 110.31        | 238.89         | 34.51        | 0.16        | 0.34        | 0.05        | 1.63           | 2.55        | 0.74        | 2.65           | 3.82         | 2.09        | 158,845          | 0.33        |
| 2/11/17        | 98.71         | 162.43         | 33.12        | 0.14        | 0.23        | 0.05        | 1.67           | 2.53        | 0.69        | 2.41           | 2.62         | 1.97        | 142,149          | 0.01        |
| 2/12/17        | 106.48        | 167.50         | 34.24        | 0.15        | 0.24        | 0.05        | 1.44           | 2.15        | 0.65        | 2.80           | 3.48         | 2.03        | 153,338          |             |
| <b>Week:</b>   | <b>110.59</b> | <b>253.96</b>  | <b>28.61</b> | <b>0.16</b> | <b>0.37</b> | <b>0.04</b> | <b>1.56</b>    | <b>2.87</b> | <b>0.60</b> | <b>2.72</b>    | <b>3.82</b>  | <b>1.94</b> | <b>1,114,792</b> | <b>2.48</b> |
| 2/13/17        | 110.89        | 184.65         | 35.69        | 0.16        | 0.27        | 0.05        | 1.61           | 2.26        | 0.80        | 2.64           | 3.55         | 1.98        | 159,682          |             |
| 2/14/17        | 105.50        | 172.71         | 35.28        | 0.15        | 0.25        | 0.05        | 1.67           | 2.16        | 0.87        | 2.50           | 3.08         | 1.90        | 151,927          |             |
| 2/15/17        | 111.64        | 183.68         | 32.78        | 0.16        | 0.26        | 0.05        | 1.72           | 2.34        | 0.78        | 2.54           | 3.02         | 1.94        | 160,755          |             |
| 2/16/17        | 113.22        | 171.53         | 49.44        | 0.16        | 0.25        | 0.07        | 1.77           | 2.26        | 1.09        | 2.54           | 3.05         | 2.04        | 163,037          |             |
| <b>Week:</b>   | <b>110.31</b> | <b>184.65</b>  | <b>32.78</b> | <b>0.16</b> | <b>0.27</b> | <b>0.05</b> | <b>1.70</b>    | <b>2.34</b> | <b>0.78</b> | <b>2.55</b>    | <b>3.55</b>  | <b>1.90</b> | <b>635,400</b>   |             |
| <b>Totals:</b> | <b>110.41</b> | <b>1601.73</b> | <b>27.64</b> | <b>0.16</b> | <b>2.31</b> | <b>0.04</b> | <b>1.73</b>    | <b>3.41</b> | <b>0.60</b> | <b>2.51</b>    | <b>15.36</b> | <b>1.64</b> | <b>4,610,849</b> | <b>8.77</b> |



Data for 2017.01-02 Site 2 Powers St MH:  
1/18/2017 thru 2/17/2017

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/18 10:59 | 2.30       | 116.87     | 2.18           |
| 2017/01/18 11:14 | 2.39       | 127.50     | 2.26           |
| 2017/01/18 11:29 | 2.80       | 172.50     | 2.42           |
| 2017/01/18 11:44 | 2.62       | 156.81     | 2.43           |
| 2017/01/18 11:59 | 2.57       | 132.15     | 2.11           |
| 2017/01/18 12:14 | 2.64       | 104.86     | 1.61           |
| 2017/01/18 12:29 | 2.62       | 146.11     | 2.26           |
| 2017/01/18 12:44 | 2.62       | 146.11     | 2.26           |
| 2017/01/18 12:59 | 2.62       | 136.32     | 2.11           |
| 2017/01/18 13:14 | 2.57       | 132.15     | 2.11           |
| 2017/01/18 13:29 | 2.57       | 131.53     | 2.10           |
| 2017/01/18 13:44 | 2.54       | 125.97     | 2.04           |
| 2017/01/18 13:59 | 2.51       | 124.03     | 2.04           |
| 2017/01/18 14:14 | 2.47       | 121.04     | 2.04           |
| 2017/01/18 14:29 | 2.48       | 125.42     | 2.10           |
| 2017/01/18 14:44 | 2.46       | 123.40     | 2.10           |
| 2017/01/18 14:59 | 2.40       | 117.01     | 2.06           |
| 2017/01/18 15:14 | 2.40       | 104.37     | 1.83           |
| 2017/01/18 15:29 | 2.40       | 105.49     | 1.85           |
| 2017/01/18 15:44 | 2.37       | 104.72     | 1.87           |
| 2017/01/18 15:59 | 2.37       | 104.72     | 1.87           |
| 2017/01/18 16:14 | 2.37       | 104.72     | 1.87           |
| 2017/01/18 16:29 | 2.37       | 103.68     | 1.85           |
| 2017/01/18 16:44 | 2.37       | 103.68     | 1.85           |
| 2017/01/18 16:59 | 2.37       | 104.72     | 1.87           |
| 2017/01/18 17:14 | 2.50       | 112.78     | 1.87           |
| 2017/01/18 17:29 | 2.51       | 118.33     | 1.95           |
| 2017/01/18 17:44 | 2.54       | 120.83     | 1.96           |
| 2017/01/18 17:59 | 2.54       | 120.21     | 1.95           |
| 2017/01/18 18:14 | 2.55       | 121.18     | 1.95           |
| 2017/01/18 18:29 | 2.58       | 123.12     | 1.95           |
| 2017/01/18 18:44 | 2.58       | 123.12     | 1.95           |
| 2017/01/18 18:59 | 2.58       | 117.57     | 1.86           |
| 2017/01/18 19:14 | 2.55       | 115.76     | 1.86           |
| 2017/01/18 19:29 | 2.55       | 115.76     | 1.86           |
| 2017/01/18 19:44 | 2.61       | 119.44     | 1.86           |
| 2017/01/18 19:59 | 2.72       | 133.12     | 1.95           |
| 2017/01/18 20:14 | 2.72       | 133.12     | 1.95           |
| 2017/01/18 20:29 | 2.72       | 139.10     | 2.04           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/18 20:44 | 2.72       | 150.07     | 2.20           |
| 2017/01/18 20:59 | 2.72       | 150.07     | 2.20           |
| 2017/01/18 21:14 | 2.54       | 139.65     | 2.26           |
| 2017/01/18 21:29 | 2.48       | 135.28     | 2.26           |
| 2017/01/18 21:44 | 2.48       | 135.28     | 2.26           |
| 2017/01/18 21:59 | 2.48       | 135.28     | 2.26           |
| 2017/01/18 22:14 | 2.53       | 126.60     | 2.07           |
| 2017/01/18 22:29 | 2.53       | 125.76     | 2.05           |
| 2017/01/18 22:44 | 2.53       | 126.60     | 2.07           |
| 2017/01/18 22:59 | 2.53       | 117.01     | 1.91           |
| 2017/01/18 23:14 | 2.53       | 114.93     | 1.88           |
| 2017/01/18 23:29 | 2.44       | 108.06     | 1.85           |
| 2017/01/18 23:44 | 2.41       | 102.57     | 1.79           |
| 2017/01/18 23:59 | 2.32       | 92.78      | 1.72           |
| 2017/01/19 00:14 | 2.29       | 91.18      | 1.72           |
| 2017/01/19 00:29 | 2.21       | 76.94      | 1.53           |
| 2017/01/19 00:44 | 2.08       | 68.96      | 1.49           |
| 2017/01/19 00:59 | 2.03       | 66.04      | 1.48           |
| 2017/01/19 01:14 | 2.01       | 59.86      | 1.36           |
| 2017/01/19 01:29 | 2.00       | 58.26      | 1.34           |
| 2017/01/19 01:44 | 1.98       | 56.87      | 1.32           |
| 2017/01/19 01:59 | 1.98       | 55.49      | 1.29           |
| 2017/01/19 02:14 | 1.98       | 46.94      | 1.09           |
| 2017/01/19 02:29 | 1.89       | 42.29      | 1.05           |
| 2017/01/19 02:44 | 1.89       | 42.29      | 1.05           |
| 2017/01/19 02:59 | 1.89       | 42.29      | 1.05           |
| 2017/01/19 03:14 | 2.01       | 47.92      | 1.09           |
| 2017/01/19 03:29 | 2.01       | 52.71      | 1.20           |
| 2017/01/19 03:44 | 1.98       | 51.67      | 1.20           |
| 2017/01/19 03:59 | 1.98       | 57.64      | 1.34           |
| 2017/01/19 04:14 | 1.98       | 57.64      | 1.34           |
| 2017/01/19 04:29 | 1.98       | 62.36      | 1.45           |
| 2017/01/19 04:44 | 1.98       | 65.49      | 1.52           |
| 2017/01/19 04:59 | 1.98       | 66.60      | 1.54           |
| 2017/01/19 05:14 | 2.32       | 101.87     | 1.88           |
| 2017/01/19 05:29 | 2.32       | 104.10     | 1.93           |
| 2017/01/19 05:44 | 2.32       | 104.10     | 1.93           |
| 2017/01/19 05:59 | 2.32       | 104.10     | 1.93           |
| 2017/01/19 06:14 | 2.21       | 96.94      | 1.93           |
| 2017/01/19 06:29 | 2.19       | 90.49      | 1.81           |
| 2017/01/19 06:44 | 2.19       | 90.49      | 1.81           |
| 2017/01/19 06:59 | 2.19       | 90.49      | 1.81           |
| 2017/01/19 07:14 | 2.21       | 91.32      | 1.81           |
| 2017/01/19 07:29 | 2.39       | 116.67     | 2.07           |
| 2017/01/19 07:44 | 2.47       | 142.85     | 2.41           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 07:59 | 2.55       | 150.69     | 2.42           |
| 2017/01/19 08:14 | 2.65       | 162.71     | 2.48           |
| 2017/01/19 08:29 | 2.65       | 168.06     | 2.56           |
| 2017/01/19 08:44 | 2.65       | 168.06     | 2.56           |
| 2017/01/19 08:59 | 2.55       | 162.08     | 2.61           |
| 2017/01/19 09:14 | 2.65       | 171.04     | 2.61           |
| 2017/01/19 09:29 | 2.65       | 171.46     | 2.61           |
| 2017/01/19 09:44 | 2.59       | 166.32     | 2.61           |
| 2017/01/19 09:59 | 2.51       | 158.68     | 2.61           |
| 2017/01/19 10:14 | 2.51       | 158.68     | 2.61           |
| 2017/01/19 10:29 | 2.51       | 158.68     | 2.61           |
| 2017/01/19 10:44 | 2.51       | 155.21     | 2.56           |
| 2017/01/19 10:59 | 2.44       | 148.54     | 2.55           |
| 2017/01/19 11:14 | 2.43       | 147.01     | 2.54           |
| 2017/01/19 11:29 | 2.40       | 143.33     | 2.52           |
| 2017/01/19 11:44 | 2.40       | 143.33     | 2.52           |
| 2017/01/19 11:59 | 2.37       | 139.65     | 2.50           |
| 2017/01/19 12:14 | 2.37       | 131.04     | 2.34           |
| 2017/01/19 12:29 | 2.37       | 131.04     | 2.34           |
| 2017/01/19 12:44 | 2.37       | 130.14     | 2.33           |
| 2017/01/19 12:59 | 2.37       | 129.24     | 2.31           |
| 2017/01/19 13:14 | 2.37       | 125.83     | 2.25           |
| 2017/01/19 13:29 | 2.37       | 122.50     | 2.19           |
| 2017/01/19 13:44 | 2.36       | 111.81     | 2.02           |
| 2017/01/19 13:59 | 2.36       | 111.81     | 2.02           |
| 2017/01/19 14:14 | 2.33       | 109.93     | 2.02           |
| 2017/01/19 14:29 | 2.32       | 111.74     | 2.07           |
| 2017/01/19 14:44 | 2.32       | 111.74     | 2.07           |
| 2017/01/19 14:59 | 2.32       | 111.74     | 2.07           |
| 2017/01/19 15:14 | 2.22       | 95.14      | 1.87           |
| 2017/01/19 15:29 | 2.22       | 105.00     | 2.07           |
| 2017/01/19 15:44 | 2.26       | 112.99     | 2.17           |
| 2017/01/19 15:59 | 2.26       | 112.99     | 2.17           |
| 2017/01/19 16:14 | 2.26       | 110.76     | 2.12           |
| 2017/01/19 16:29 | 2.26       | 110.76     | 2.12           |
| 2017/01/19 16:44 | 2.36       | 117.71     | 2.12           |
| 2017/01/19 16:59 | 2.37       | 118.75     | 2.12           |
| 2017/01/19 17:14 | 2.40       | 116.32     | 2.04           |
| 2017/01/19 17:29 | 2.40       | 116.32     | 2.04           |
| 2017/01/19 17:44 | 2.40       | 116.32     | 2.04           |
| 2017/01/19 17:59 | 2.39       | 115.35     | 2.04           |
| 2017/01/19 18:14 | 2.39       | 123.61     | 2.19           |
| 2017/01/19 18:29 | 2.37       | 122.57     | 2.19           |
| 2017/01/19 18:44 | 2.37       | 128.40     | 2.29           |
| 2017/01/19 18:59 | 2.37       | 130.62     | 2.33           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 19:14 | 2.34       | 128.40     | 2.33           |
| 2017/01/19 19:29 | 2.34       | 130.00     | 2.36           |
| 2017/01/19 19:44 | 2.34       | 131.81     | 2.40           |
| 2017/01/19 19:59 | 2.34       | 131.81     | 2.40           |
| 2017/01/19 20:14 | 2.34       | 131.81     | 2.40           |
| 2017/01/19 20:29 | 2.34       | 130.35     | 2.37           |
| 2017/01/19 20:44 | 2.34       | 130.35     | 2.37           |
| 2017/01/19 20:59 | 2.34       | 131.94     | 2.40           |
| 2017/01/19 21:14 | 2.34       | 130.35     | 2.37           |
| 2017/01/19 21:29 | 2.34       | 130.00     | 2.36           |
| 2017/01/19 21:44 | 2.34       | 127.29     | 2.31           |
| 2017/01/19 21:59 | 2.37       | 129.51     | 2.31           |
| 2017/01/19 22:14 | 2.37       | 129.51     | 2.31           |
| 2017/01/19 22:29 | 2.39       | 125.00     | 2.22           |
| 2017/01/19 22:44 | 2.37       | 123.54     | 2.21           |
| 2017/01/19 22:59 | 2.37       | 120.97     | 2.16           |
| 2017/01/19 23:14 | 2.32       | 116.46     | 2.15           |
| 2017/01/19 23:29 | 2.32       | 88.61      | 1.64           |
| 2017/01/19 23:44 | 2.23       | 80.76      | 1.58           |
| 2017/01/19 23:59 | 2.11       | 74.31      | 1.58           |
| 2017/01/20 00:14 | 2.11       | 74.31      | 1.58           |
| 2017/01/20 00:29 | 1.93       | 65.21      | 1.58           |
| 2017/01/20 00:44 | 1.91       | 64.58      | 1.58           |
| 2017/01/20 00:59 | 1.90       | 63.89      | 1.58           |
| 2017/01/20 01:14 | 1.87       | 59.31      | 1.50           |
| 2017/01/20 01:29 | 1.86       | 50.97      | 1.30           |
| 2017/01/20 01:44 | 1.83       | 47.15      | 1.23           |
| 2017/01/20 01:59 | 1.79       | 45.49      | 1.23           |
| 2017/01/20 02:14 | 1.78       | 44.72      | 1.22           |
| 2017/01/20 02:29 | 1.72       | 40.14      | 1.15           |
| 2017/01/20 02:44 | 1.71       | 36.94      | 1.07           |
| 2017/01/20 02:59 | 1.71       | 35.83      | 1.04           |
| 2017/01/20 03:14 | 1.69       | 35.42      | 1.04           |
| 2017/01/20 03:29 | 1.69       | 31.60      | 0.92           |
| 2017/01/20 03:44 | 1.69       | 31.60      | 0.92           |
| 2017/01/20 03:59 | 1.69       | 31.60      | 0.92           |
| 2017/01/20 04:14 | 1.69       | 31.60      | 0.92           |
| 2017/01/20 04:29 | 1.69       | 31.60      | 0.92           |
| 2017/01/20 04:44 | 1.71       | 37.01      | 1.07           |
| 2017/01/20 04:59 | 1.72       | 37.85      | 1.08           |
| 2017/01/20 05:14 | 1.73       | 42.71      | 1.21           |
| 2017/01/20 05:29 | 1.83       | 47.64      | 1.24           |
| 2017/01/20 05:44 | 1.83       | 49.10      | 1.28           |
| 2017/01/20 05:59 | 1.84       | 54.10      | 1.39           |
| 2017/01/20 06:14 | 1.89       | 56.25      | 1.40           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 06:29 | 1.93       | 62.43      | 1.51           |
| 2017/01/20 06:44 | 1.97       | 70.07      | 1.64           |
| 2017/01/20 06:59 | 1.98       | 75.07      | 1.74           |
| 2017/01/20 07:14 | 2.25       | 110.28     | 2.13           |
| 2017/01/20 07:29 | 2.33       | 129.51     | 2.38           |
| 2017/01/20 07:44 | 2.72       | 184.72     | 2.71           |
| 2017/01/20 07:59 | 2.80       | 197.36     | 2.77           |
| 2017/01/20 08:14 | 2.80       | 197.36     | 2.77           |
| 2017/01/20 08:29 | 2.80       | 197.36     | 2.77           |
| 2017/01/20 08:44 | 2.80       | 197.36     | 2.77           |
| 2017/01/20 08:59 | 2.80       | 197.36     | 2.77           |
| 2017/01/20 09:14 | 2.80       | 197.36     | 2.77           |
| 2017/01/20 09:29 | 2.80       | 192.78     | 2.71           |
| 2017/01/20 09:44 | 2.73       | 175.42     | 2.56           |
| 2017/01/20 09:59 | 2.86       | 187.01     | 2.56           |
| 2017/01/20 10:14 | 2.87       | 186.39     | 2.53           |
| 2017/01/20 10:29 | 2.87       | 186.39     | 2.53           |
| 2017/01/20 10:44 | 3.04       | 202.08     | 2.53           |
| 2017/01/20 10:59 | 3.04       | 202.08     | 2.53           |
| 2017/01/20 11:14 | 3.23       | 222.15     | 2.55           |
| 2017/01/20 11:29 | 3.25       | 245.35     | 2.79           |
| 2017/01/20 11:44 | 3.30       | 275.90     | 3.07           |
| 2017/01/20 11:59 | 3.37       | 289.65     | 3.13           |
| 2017/01/20 12:14 | 3.72       | 356.80     | 3.35           |
| 2017/01/20 12:29 | 3.79       | 372.29     | 3.41           |
| 2017/01/20 12:44 | 3.79       | 372.29     | 3.41           |
| 2017/01/20 12:59 | 3.79       | 372.29     | 3.41           |
| 2017/01/20 13:14 | 3.79       | 372.29     | 3.41           |
| 2017/01/20 13:29 | 2.61       | 166.87     | 2.60           |
| 2017/01/20 13:44 | 2.61       | 155.56     | 2.42           |
| 2017/01/20 13:59 | 2.57       | 149.37     | 2.38           |
| 2017/01/20 14:14 | 2.46       | 133.75     | 2.28           |
| 2017/01/20 14:29 | 2.46       | 130.35     | 2.22           |
| 2017/01/20 14:44 | 2.46       | 130.35     | 2.22           |
| 2017/01/20 14:59 | 2.46       | 128.82     | 2.19           |
| 2017/01/20 15:14 | 2.40       | 114.44     | 2.01           |
| 2017/01/20 15:29 | 2.40       | 111.39     | 1.96           |
| 2017/01/20 15:44 | 2.26       | 101.94     | 1.95           |
| 2017/01/20 15:59 | 2.26       | 101.94     | 1.95           |
| 2017/01/20 16:14 | 2.26       | 90.00      | 1.72           |
| 2017/01/20 16:29 | 2.26       | 90.00      | 1.72           |
| 2017/01/20 16:44 | 2.26       | 100.56     | 1.93           |
| 2017/01/20 16:59 | 2.22       | 97.92      | 1.93           |
| 2017/01/20 17:14 | 2.40       | 109.65     | 1.93           |
| 2017/01/20 17:29 | 2.40       | 110.69     | 1.95           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 17:44 | 2.37       | 107.78     | 1.93           |
| 2017/01/20 17:59 | 2.37       | 107.78     | 1.93           |
| 2017/01/20 18:14 | 2.37       | 90.28      | 1.61           |
| 2017/01/20 18:29 | 2.37       | 90.28      | 1.61           |
| 2017/01/20 18:44 | 2.39       | 109.72     | 1.95           |
| 2017/01/20 18:59 | 2.39       | 109.72     | 1.95           |
| 2017/01/20 19:14 | 2.43       | 119.31     | 2.06           |
| 2017/01/20 19:29 | 2.43       | 124.86     | 2.16           |
| 2017/01/20 19:44 | 2.44       | 125.90     | 2.16           |
| 2017/01/20 19:59 | 2.44       | 126.81     | 2.17           |
| 2017/01/20 20:14 | 2.44       | 126.81     | 2.17           |
| 2017/01/20 20:29 | 2.44       | 126.81     | 2.17           |
| 2017/01/20 20:44 | 2.43       | 125.76     | 2.17           |
| 2017/01/20 20:59 | 2.46       | 132.08     | 2.25           |
| 2017/01/20 21:14 | 2.46       | 132.08     | 2.25           |
| 2017/01/20 21:29 | 2.46       | 132.08     | 2.25           |
| 2017/01/20 21:44 | 2.43       | 114.03     | 1.97           |
| 2017/01/20 21:59 | 2.32       | 106.60     | 1.97           |
| 2017/01/20 22:14 | 2.28       | 102.71     | 1.95           |
| 2017/01/20 22:29 | 2.28       | 103.82     | 1.97           |
| 2017/01/20 22:44 | 2.26       | 97.92      | 1.88           |
| 2017/01/20 22:59 | 2.25       | 96.32      | 1.86           |
| 2017/01/20 23:14 | 2.19       | 92.85      | 1.86           |
| 2017/01/20 23:29 | 2.15       | 88.75      | 1.83           |
| 2017/01/20 23:44 | 2.15       | 84.37      | 1.74           |
| 2017/01/20 23:59 | 2.09       | 80.69      | 1.73           |
| 2017/01/21 00:14 | 2.09       | 78.96      | 1.69           |
| 2017/01/21 00:29 | 2.01       | 74.44      | 1.69           |
| 2017/01/21 00:44 | 2.01       | 74.17      | 1.68           |
| 2017/01/21 00:59 | 1.97       | 71.94      | 1.68           |
| 2017/01/21 01:14 | 1.97       | 71.94      | 1.68           |
| 2017/01/21 01:29 | 1.97       | 64.10      | 1.50           |
| 2017/01/21 01:44 | 1.90       | 53.26      | 1.31           |
| 2017/01/21 01:59 | 1.90       | 53.12      | 1.31           |
| 2017/01/21 02:14 | 1.90       | 51.81      | 1.28           |
| 2017/01/21 02:29 | 1.86       | 50.07      | 1.28           |
| 2017/01/21 02:44 | 1.84       | 47.64      | 1.23           |
| 2017/01/21 02:59 | 1.84       | 45.69      | 1.18           |
| 2017/01/21 03:14 | 1.84       | 45.49      | 1.17           |
| 2017/01/21 03:29 | 1.72       | 39.31      | 1.12           |
| 2017/01/21 03:44 | 1.71       | 31.25      | 0.90           |
| 2017/01/21 03:59 | 1.64       | 27.71      | 0.85           |
| 2017/01/21 04:14 | 1.64       | 27.71      | 0.85           |
| 2017/01/21 04:29 | 1.64       | 27.64      | 0.85           |
| 2017/01/21 04:44 | 1.64       | 27.71      | 0.85           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 04:59 | 1.66       | 30.14      | 0.90           |
| 2017/01/21 05:14 | 1.68       | 31.74      | 0.94           |
| 2017/01/21 05:29 | 1.68       | 33.54      | 0.99           |
| 2017/01/21 05:44 | 1.68       | 33.54      | 0.99           |
| 2017/01/21 05:59 | 1.68       | 33.54      | 0.99           |
| 2017/01/21 06:14 | 1.75       | 41.53      | 1.16           |
| 2017/01/21 06:29 | 1.75       | 41.67      | 1.16           |
| 2017/01/21 06:44 | 1.79       | 43.75      | 1.18           |
| 2017/01/21 06:59 | 1.80       | 44.37      | 1.18           |
| 2017/01/21 07:14 | 1.83       | 47.64      | 1.24           |
| 2017/01/21 07:29 | 1.90       | 60.28      | 1.49           |
| 2017/01/21 07:44 | 2.07       | 69.17      | 1.51           |
| 2017/01/21 07:59 | 2.15       | 77.29      | 1.59           |
| 2017/01/21 08:14 | 2.19       | 86.67      | 1.74           |
| 2017/01/21 08:29 | 2.32       | 106.46     | 1.97           |
| 2017/01/21 08:44 | 2.33       | 122.85     | 2.25           |
| 2017/01/21 08:59 | 2.34       | 125.76     | 2.29           |
| 2017/01/21 09:14 | 2.36       | 138.26     | 2.49           |
| 2017/01/21 09:29 | 2.41       | 143.47     | 2.50           |
| 2017/01/21 09:44 | 2.43       | 144.65     | 2.50           |
| 2017/01/21 09:59 | 2.44       | 147.57     | 2.53           |
| 2017/01/21 10:14 | 2.44       | 148.96     | 2.55           |
| 2017/01/21 10:29 | 2.44       | 148.96     | 2.55           |
| 2017/01/21 10:44 | 2.44       | 148.96     | 2.55           |
| 2017/01/21 10:59 | 2.46       | 152.43     | 2.59           |
| 2017/01/21 11:14 | 2.48       | 154.93     | 2.59           |
| 2017/01/21 11:29 | 2.48       | 154.93     | 2.59           |
| 2017/01/21 11:44 | 2.46       | 152.36     | 2.59           |
| 2017/01/21 11:59 | 2.48       | 154.86     | 2.59           |
| 2017/01/21 12:14 | 2.48       | 154.37     | 2.58           |
| 2017/01/21 12:29 | 2.46       | 151.11     | 2.57           |
| 2017/01/21 12:44 | 2.44       | 144.51     | 2.48           |
| 2017/01/21 12:59 | 2.44       | 144.51     | 2.48           |
| 2017/01/21 13:14 | 2.44       | 144.51     | 2.48           |
| 2017/01/21 13:29 | 2.44       | 138.06     | 2.37           |
| 2017/01/21 13:44 | 2.40       | 134.44     | 2.36           |
| 2017/01/21 13:59 | 2.40       | 134.44     | 2.36           |
| 2017/01/21 14:14 | 2.40       | 136.81     | 2.40           |
| 2017/01/21 14:29 | 2.40       | 136.81     | 2.40           |
| 2017/01/21 14:44 | 2.40       | 132.01     | 2.32           |
| 2017/01/21 14:59 | 2.40       | 126.67     | 2.23           |
| 2017/01/21 15:14 | 2.40       | 119.65     | 2.10           |
| 2017/01/21 15:29 | 2.40       | 119.65     | 2.10           |
| 2017/01/21 15:44 | 2.34       | 115.62     | 2.10           |
| 2017/01/21 15:59 | 2.34       | 115.62     | 2.10           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 16:14 | 2.34       | 125.28     | 2.28           |
| 2017/01/21 16:29 | 2.39       | 128.54     | 2.28           |
| 2017/01/21 16:44 | 2.39       | 128.54     | 2.28           |
| 2017/01/21 16:59 | 2.43       | 135.07     | 2.33           |
| 2017/01/21 17:14 | 2.43       | 135.07     | 2.33           |
| 2017/01/21 17:29 | 2.43       | 135.07     | 2.33           |
| 2017/01/21 17:44 | 2.43       | 137.85     | 2.38           |
| 2017/01/21 17:59 | 2.47       | 141.32     | 2.38           |
| 2017/01/21 18:14 | 2.47       | 143.12     | 2.41           |
| 2017/01/21 18:29 | 2.47       | 143.12     | 2.41           |
| 2017/01/21 18:44 | 2.47       | 141.32     | 2.38           |
| 2017/01/21 18:59 | 2.43       | 131.67     | 2.28           |
| 2017/01/21 19:14 | 2.44       | 121.32     | 2.08           |
| 2017/01/21 19:29 | 2.47       | 123.26     | 2.08           |
| 2017/01/21 19:44 | 2.44       | 121.32     | 2.08           |
| 2017/01/21 19:59 | 2.44       | 119.79     | 2.05           |
| 2017/01/21 20:14 | 2.44       | 96.53      | 1.66           |
| 2017/01/21 20:29 | 2.48       | 122.50     | 2.05           |
| 2017/01/21 20:44 | 2.51       | 124.44     | 2.05           |
| 2017/01/21 20:59 | 2.51       | 112.78     | 1.86           |
| 2017/01/21 21:14 | 2.48       | 98.06      | 1.64           |
| 2017/01/21 21:29 | 2.57       | 102.85     | 1.64           |
| 2017/01/21 21:44 | 2.48       | 98.06      | 1.64           |
| 2017/01/21 21:59 | 2.40       | 105.62     | 1.86           |
| 2017/01/21 22:14 | 2.37       | 91.74      | 1.64           |
| 2017/01/21 22:29 | 2.26       | 96.94      | 1.86           |
| 2017/01/21 22:44 | 2.26       | 84.37      | 1.62           |
| 2017/01/21 22:59 | 2.25       | 98.33      | 1.90           |
| 2017/01/21 23:14 | 2.22       | 96.60      | 1.90           |
| 2017/01/21 23:29 | 2.22       | 93.12      | 1.83           |
| 2017/01/21 23:44 | 2.22       | 82.85      | 1.63           |
| 2017/01/21 23:59 | 2.12       | 78.61      | 1.65           |
| 2017/01/22 00:14 | 2.12       | 77.64      | 1.63           |
| 2017/01/22 00:29 | 2.12       | 77.64      | 1.63           |
| 2017/01/22 00:44 | 2.09       | 73.06      | 1.56           |
| 2017/01/22 00:59 | 2.00       | 65.00      | 1.49           |
| 2017/01/22 01:14 | 2.00       | 65.00      | 1.49           |
| 2017/01/22 01:29 | 1.96       | 61.87      | 1.46           |
| 2017/01/22 01:44 | 1.94       | 60.42      | 1.45           |
| 2017/01/22 01:59 | 1.94       | 56.32      | 1.35           |
| 2017/01/22 02:14 | 1.90       | 52.71      | 1.30           |
| 2017/01/22 02:29 | 1.90       | 51.04      | 1.26           |
| 2017/01/22 02:44 | 1.87       | 48.06      | 1.21           |
| 2017/01/22 02:59 | 1.87       | 46.74      | 1.18           |
| 2017/01/22 03:14 | 1.80       | 43.61      | 1.16           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 03:29 | 1.78       | 42.29      | 1.15           |
| 2017/01/22 03:44 | 1.78       | 40.14      | 1.09           |
| 2017/01/22 03:59 | 1.75       | 38.26      | 1.07           |
| 2017/01/22 04:14 | 1.75       | 38.26      | 1.07           |
| 2017/01/22 04:29 | 1.75       | 38.26      | 1.07           |
| 2017/01/22 04:44 | 1.78       | 39.17      | 1.07           |
| 2017/01/22 04:59 | 1.80       | 40.00      | 1.07           |
| 2017/01/22 05:14 | 1.80       | 42.29      | 1.13           |
| 2017/01/22 05:29 | 1.84       | 45.56      | 1.17           |
| 2017/01/22 05:44 | 1.84       | 45.56      | 1.17           |
| 2017/01/22 05:59 | 1.86       | 46.67      | 1.19           |
| 2017/01/22 06:14 | 1.86       | 46.67      | 1.19           |
| 2017/01/22 06:29 | 1.86       | 47.85      | 1.22           |
| 2017/01/22 06:44 | 1.86       | 48.68      | 1.24           |
| 2017/01/22 06:59 | 1.93       | 51.67      | 1.25           |
| 2017/01/22 07:14 | 1.94       | 52.43      | 1.25           |
| 2017/01/22 07:29 | 1.94       | 56.18      | 1.34           |
| 2017/01/22 07:44 | 1.97       | 60.35      | 1.41           |
| 2017/01/22 07:59 | 1.98       | 63.89      | 1.48           |
| 2017/01/22 08:14 | 2.08       | 68.96      | 1.49           |
| 2017/01/22 08:29 | 2.21       | 85.21      | 1.69           |
| 2017/01/22 08:44 | 2.34       | 106.67     | 1.94           |
| 2017/01/22 08:59 | 2.41       | 118.06     | 2.06           |
| 2017/01/22 09:14 | 2.47       | 124.03     | 2.09           |
| 2017/01/22 09:29 | 2.47       | 125.28     | 2.11           |
| 2017/01/22 09:44 | 2.50       | 129.24     | 2.15           |
| 2017/01/22 09:59 | 2.53       | 147.85     | 2.42           |
| 2017/01/22 10:14 | 2.64       | 157.36     | 2.42           |
| 2017/01/22 10:29 | 2.71       | 163.33     | 2.42           |
| 2017/01/22 10:44 | 2.80       | 185.76     | 2.61           |
| 2017/01/22 10:59 | 2.83       | 189.24     | 2.62           |
| 2017/01/22 11:14 | 2.84       | 190.62     | 2.62           |
| 2017/01/22 11:29 | 2.84       | 194.24     | 2.67           |
| 2017/01/22 11:44 | 2.96       | 211.87     | 2.76           |
| 2017/01/22 11:59 | 2.97       | 216.25     | 2.80           |
| 2017/01/22 12:14 | 2.97       | 217.78     | 2.82           |
| 2017/01/22 12:29 | 3.12       | 252.36     | 3.04           |
| 2017/01/22 12:44 | 3.15       | 260.49     | 3.10           |
| 2017/01/22 12:59 | 3.29       | 279.03     | 3.12           |
| 2017/01/22 13:14 | 3.40       | 296.11     | 3.16           |
| 2017/01/22 13:29 | 3.52       | 318.12     | 3.22           |
| 2017/01/22 13:44 | 3.52       | 321.11     | 3.25           |
| 2017/01/22 13:59 | 3.54       | 324.58     | 3.27           |
| 2017/01/22 14:14 | 3.57       | 329.58     | 3.29           |
| 2017/01/22 14:29 | 3.58       | 333.82     | 3.31           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 14:44 | 3.73       | 354.17     | 3.31           |
| 2017/01/22 14:59 | 3.86       | 370.97     | 3.31           |
| 2017/01/22 15:14 | 3.93       | 380.35     | 3.31           |
| 2017/01/22 15:29 | 15.36      | 1601.73    | 2.91           |
| 2017/01/22 15:44 | 15.36      | 1584.16    | 2.88           |
| 2017/01/22 15:59 | 15.36      | 1496.87    | 2.72           |
| 2017/01/22 16:14 | 15.36      | 1221.66    | 2.22           |
| 2017/01/22 16:29 | 12.86      | 1230.69    | 2.45           |
| 2017/01/22 16:44 | 6.89       | 548.05     | 2.22           |
| 2017/01/22 16:59 | 4.29       | 288.75     | 2.22           |
| 2017/01/22 17:14 | 2.59       | 141.46     | 2.22           |
| 2017/01/22 17:29 | 2.58       | 140.35     | 2.22           |
| 2017/01/22 17:44 | 2.58       | 140.35     | 2.22           |
| 2017/01/22 17:59 | 2.58       | 141.18     | 2.24           |
| 2017/01/22 18:14 | 2.55       | 137.01     | 2.20           |
| 2017/01/22 18:29 | 2.54       | 135.97     | 2.20           |
| 2017/01/22 18:44 | 2.54       | 135.97     | 2.20           |
| 2017/01/22 18:59 | 2.53       | 134.86     | 2.20           |
| 2017/01/22 19:14 | 2.53       | 134.86     | 2.20           |
| 2017/01/22 19:29 | 2.53       | 137.15     | 2.24           |
| 2017/01/22 19:44 | 2.51       | 136.04     | 2.24           |
| 2017/01/22 19:59 | 2.51       | 140.76     | 2.32           |
| 2017/01/22 20:14 | 2.48       | 138.54     | 2.32           |
| 2017/01/22 20:29 | 2.48       | 138.54     | 2.32           |
| 2017/01/22 20:44 | 2.48       | 137.08     | 2.29           |
| 2017/01/22 20:59 | 2.48       | 137.08     | 2.29           |
| 2017/01/22 21:14 | 2.48       | 137.08     | 2.29           |
| 2017/01/22 21:29 | 2.48       | 137.08     | 2.29           |
| 2017/01/22 21:44 | 2.46       | 133.54     | 2.27           |
| 2017/01/22 21:59 | 2.46       | 128.12     | 2.18           |
| 2017/01/22 22:14 | 2.43       | 126.04     | 2.18           |
| 2017/01/22 22:29 | 2.39       | 106.67     | 1.89           |
| 2017/01/22 22:44 | 2.30       | 99.51      | 1.86           |
| 2017/01/22 22:59 | 2.30       | 86.32      | 1.61           |
| 2017/01/22 23:14 | 2.30       | 81.67      | 1.52           |
| 2017/01/22 23:29 | 2.30       | 81.67      | 1.52           |
| 2017/01/22 23:44 | 2.30       | 81.67      | 1.52           |
| 2017/01/22 23:59 | 2.30       | 81.67      | 1.52           |
| 2017/01/23 00:14 | 2.30       | 81.60      | 1.52           |
| 2017/01/23 00:29 | 2.18       | 73.06      | 1.48           |
| 2017/01/23 00:44 | 2.16       | 72.43      | 1.48           |
| 2017/01/23 00:59 | 2.04       | 66.39      | 1.48           |
| 2017/01/23 01:14 | 2.03       | 60.69      | 1.37           |
| 2017/01/23 01:29 | 1.90       | 47.29      | 1.17           |
| 2017/01/23 01:44 | 1.87       | 44.65      | 1.13           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 01:59 | 1.82       | 41.74      | 1.10           |
| 2017/01/23 02:14 | 1.79       | 40.07      | 1.08           |
| 2017/01/23 02:29 | 1.79       | 36.04      | 0.97           |
| 2017/01/23 02:44 | 1.78       | 33.96      | 0.93           |
| 2017/01/23 02:59 | 1.72       | 31.74      | 0.91           |
| 2017/01/23 03:14 | 1.72       | 30.35      | 0.87           |
| 2017/01/23 03:29 | 1.71       | 29.65      | 0.86           |
| 2017/01/23 03:44 | 1.71       | 29.65      | 0.86           |
| 2017/01/23 03:59 | 1.71       | 30.00      | 0.87           |
| 2017/01/23 04:14 | 1.68       | 29.31      | 0.87           |
| 2017/01/23 04:29 | 1.66       | 28.96      | 0.87           |
| 2017/01/23 04:44 | 1.66       | 29.37      | 0.88           |
| 2017/01/23 04:59 | 1.68       | 29.86      | 0.88           |
| 2017/01/23 05:14 | 1.72       | 31.94      | 0.91           |
| 2017/01/23 05:29 | 1.75       | 35.97      | 1.00           |
| 2017/01/23 05:44 | 1.78       | 40.62      | 1.11           |
| 2017/01/23 05:59 | 1.83       | 43.61      | 1.14           |
| 2017/01/23 06:14 | 1.87       | 47.29      | 1.19           |
| 2017/01/23 06:29 | 1.90       | 50.42      | 1.24           |
| 2017/01/23 06:44 | 1.98       | 64.31      | 1.49           |
| 2017/01/23 06:59 | 2.09       | 80.97      | 1.73           |
| 2017/01/23 07:14 | 2.29       | 98.06      | 1.85           |
| 2017/01/23 07:29 | 2.29       | 106.04     | 2.00           |
| 2017/01/23 07:44 | 2.39       | 124.03     | 2.20           |
| 2017/01/23 07:59 | 2.41       | 139.37     | 2.43           |
| 2017/01/23 08:14 | 2.66       | 178.89     | 2.71           |
| 2017/01/23 08:29 | 2.84       | 201.87     | 2.78           |
| 2017/01/23 08:44 | 2.84       | 201.87     | 2.78           |
| 2017/01/23 08:59 | 2.84       | 201.87     | 2.78           |
| 2017/01/23 09:14 | 2.84       | 201.87     | 2.78           |
| 2017/01/23 09:29 | 2.69       | 174.65     | 2.60           |
| 2017/01/23 09:44 | 2.61       | 164.65     | 2.57           |
| 2017/01/23 09:59 | 2.61       | 164.65     | 2.57           |
| 2017/01/23 10:14 | 2.57       | 157.50     | 2.51           |
| 2017/01/23 10:29 | 2.55       | 155.90     | 2.51           |
| 2017/01/23 10:44 | 2.55       | 155.42     | 2.50           |
| 2017/01/23 10:59 | 2.54       | 154.72     | 2.51           |
| 2017/01/23 11:14 | 2.50       | 147.71     | 2.45           |
| 2017/01/23 11:29 | 2.48       | 146.53     | 2.45           |
| 2017/01/23 11:44 | 2.48       | 146.53     | 2.45           |
| 2017/01/23 11:59 | 2.46       | 144.17     | 2.45           |
| 2017/01/23 12:14 | 2.44       | 142.99     | 2.45           |
| 2017/01/23 12:29 | 2.44       | 142.99     | 2.45           |
| 2017/01/23 12:44 | 2.44       | 140.90     | 2.42           |
| 2017/01/23 12:59 | 2.44       | 137.22     | 2.35           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 13:14 | 2.44       | 137.22     | 2.35           |
| 2017/01/23 13:29 | 2.47       | 139.51     | 2.35           |
| 2017/01/23 13:44 | 2.47       | 139.51     | 2.35           |
| 2017/01/23 13:59 | 2.47       | 137.01     | 2.31           |
| 2017/01/23 14:14 | 2.47       | 137.01     | 2.31           |
| 2017/01/23 14:29 | 2.47       | 135.76     | 2.29           |
| 2017/01/23 14:44 | 2.48       | 135.14     | 2.26           |
| 2017/01/23 14:59 | 2.47       | 134.03     | 2.26           |
| 2017/01/23 15:14 | 2.47       | 132.92     | 2.24           |
| 2017/01/23 15:29 | 2.47       | 130.07     | 2.19           |
| 2017/01/23 15:44 | 2.46       | 121.94     | 2.07           |
| 2017/01/23 15:59 | 2.30       | 105.14     | 1.96           |
| 2017/01/23 16:14 | 2.30       | 104.17     | 1.94           |
| 2017/01/23 16:29 | 2.30       | 104.17     | 1.94           |
| 2017/01/23 16:44 | 2.30       | 104.17     | 1.94           |
| 2017/01/23 16:59 | 2.33       | 105.97     | 1.94           |
| 2017/01/23 17:14 | 2.44       | 114.44     | 1.96           |
| 2017/01/23 17:29 | 2.44       | 114.44     | 1.96           |
| 2017/01/23 17:44 | 2.46       | 122.57     | 2.08           |
| 2017/01/23 17:59 | 2.44       | 121.60     | 2.08           |
| 2017/01/23 18:14 | 2.44       | 128.61     | 2.20           |
| 2017/01/23 18:29 | 2.44       | 128.61     | 2.20           |
| 2017/01/23 18:44 | 2.44       | 135.62     | 2.33           |
| 2017/01/23 18:59 | 2.44       | 135.62     | 2.33           |
| 2017/01/23 19:14 | 2.44       | 135.62     | 2.33           |
| 2017/01/23 19:29 | 2.44       | 135.83     | 2.33           |
| 2017/01/23 19:44 | 2.46       | 137.36     | 2.34           |
| 2017/01/23 19:59 | 2.48       | 139.65     | 2.34           |
| 2017/01/23 20:14 | 2.50       | 140.76     | 2.34           |
| 2017/01/23 20:29 | 2.53       | 142.99     | 2.34           |
| 2017/01/23 20:44 | 2.53       | 142.99     | 2.34           |
| 2017/01/23 20:59 | 2.53       | 144.51     | 2.36           |
| 2017/01/23 21:14 | 2.51       | 143.33     | 2.36           |
| 2017/01/23 21:29 | 2.48       | 141.11     | 2.36           |
| 2017/01/23 21:44 | 2.48       | 141.11     | 2.36           |
| 2017/01/23 21:59 | 2.44       | 116.94     | 2.01           |
| 2017/01/23 22:14 | 2.44       | 116.94     | 2.01           |
| 2017/01/23 22:29 | 2.44       | 116.53     | 2.00           |
| 2017/01/23 22:44 | 2.40       | 107.01     | 1.88           |
| 2017/01/23 22:59 | 2.37       | 101.67     | 1.82           |
| 2017/01/23 23:14 | 2.32       | 97.92      | 1.81           |
| 2017/01/23 23:29 | 2.32       | 89.03      | 1.65           |
| 2017/01/23 23:44 | 2.28       | 86.67      | 1.65           |
| 2017/01/23 23:59 | 2.25       | 81.60      | 1.58           |
| 2017/01/24 00:14 | 2.19       | 78.68      | 1.58           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 00:29 | 2.09       | 72.29      | 1.55           |
| 2017/01/24 00:44 | 2.07       | 70.00      | 1.53           |
| 2017/01/24 00:59 | 2.04       | 66.87      | 1.49           |
| 2017/01/24 01:14 | 2.03       | 63.89      | 1.44           |
| 2017/01/24 01:29 | 1.96       | 56.60      | 1.34           |
| 2017/01/24 01:44 | 1.89       | 49.86      | 1.24           |
| 2017/01/24 01:59 | 1.83       | 43.61      | 1.14           |
| 2017/01/24 02:14 | 1.82       | 41.18      | 1.08           |
| 2017/01/24 02:29 | 1.82       | 40.83      | 1.08           |
| 2017/01/24 02:44 | 1.75       | 38.40      | 1.07           |
| 2017/01/24 02:59 | 1.75       | 36.74      | 1.02           |
| 2017/01/24 03:14 | 1.75       | 36.25      | 1.01           |
| 2017/01/24 03:29 | 1.75       | 36.25      | 1.01           |
| 2017/01/24 03:44 | 1.79       | 36.74      | 0.99           |
| 2017/01/24 03:59 | 1.79       | 37.99      | 1.02           |
| 2017/01/24 04:14 | 1.79       | 37.99      | 1.02           |
| 2017/01/24 04:29 | 1.80       | 38.40      | 1.02           |
| 2017/01/24 04:44 | 1.83       | 40.42      | 1.05           |
| 2017/01/24 04:59 | 1.83       | 40.90      | 1.07           |
| 2017/01/24 05:14 | 1.83       | 42.08      | 1.10           |
| 2017/01/24 05:29 | 1.87       | 44.31      | 1.12           |
| 2017/01/24 05:44 | 1.93       | 46.25      | 1.12           |
| 2017/01/24 05:59 | 1.98       | 48.19      | 1.12           |
| 2017/01/24 06:14 | 2.00       | 51.53      | 1.18           |
| 2017/01/24 06:29 | 2.00       | 52.71      | 1.21           |
| 2017/01/24 06:44 | 2.01       | 55.00      | 1.25           |
| 2017/01/24 06:59 | 2.23       | 65.00      | 1.27           |
| 2017/01/24 07:14 | 2.32       | 75.21      | 1.39           |
| 2017/01/24 07:29 | 2.34       | 88.33      | 1.61           |
| 2017/01/24 07:44 | 2.44       | 116.67     | 2.00           |
| 2017/01/24 07:59 | 2.47       | 119.86     | 2.02           |
| 2017/01/24 08:14 | 2.48       | 144.17     | 2.41           |
| 2017/01/24 08:29 | 2.50       | 150.97     | 2.51           |
| 2017/01/24 08:44 | 2.53       | 153.40     | 2.51           |
| 2017/01/24 08:59 | 2.55       | 155.90     | 2.51           |
| 2017/01/24 09:14 | 2.55       | 155.83     | 2.51           |
| 2017/01/24 09:29 | 2.53       | 149.58     | 2.44           |
| 2017/01/24 09:44 | 2.53       | 149.58     | 2.44           |
| 2017/01/24 09:59 | 2.53       | 149.58     | 2.44           |
| 2017/01/24 10:14 | 2.53       | 149.58     | 2.44           |
| 2017/01/24 10:29 | 2.50       | 147.29     | 2.44           |
| 2017/01/24 10:44 | 2.50       | 147.15     | 2.44           |
| 2017/01/24 10:59 | 2.50       | 146.74     | 2.44           |
| 2017/01/24 11:14 | 2.47       | 144.93     | 2.44           |
| 2017/01/24 11:29 | 2.51       | 148.47     | 2.44           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 11:44 | 2.50       | 146.74     | 2.44           |
| 2017/01/24 11:59 | 2.50       | 132.29     | 2.20           |
| 2017/01/24 12:14 | 2.50       | 132.29     | 2.20           |
| 2017/01/24 12:29 | 2.50       | 131.53     | 2.18           |
| 2017/01/24 12:44 | 2.50       | 130.28     | 2.16           |
| 2017/01/24 12:59 | 2.50       | 130.21     | 2.16           |
| 2017/01/24 13:14 | 2.48       | 124.31     | 2.08           |
| 2017/01/24 13:29 | 2.48       | 124.31     | 2.08           |
| 2017/01/24 13:44 | 2.47       | 123.12     | 2.08           |
| 2017/01/24 13:59 | 2.47       | 106.39     | 1.79           |
| 2017/01/24 14:14 | 2.46       | 103.26     | 1.76           |
| 2017/01/24 14:29 | 2.33       | 95.76      | 1.76           |
| 2017/01/24 14:44 | 2.33       | 97.85      | 1.79           |
| 2017/01/24 14:59 | 2.30       | 96.18      | 1.79           |
| 2017/01/24 15:14 | 2.28       | 85.14      | 1.62           |
| 2017/01/24 15:29 | 2.26       | 84.37      | 1.62           |
| 2017/01/24 15:44 | 2.28       | 85.14      | 1.62           |
| 2017/01/24 15:59 | 2.28       | 84.31      | 1.60           |
| 2017/01/24 16:14 | 2.26       | 83.54      | 1.60           |
| 2017/01/24 16:29 | 2.26       | 83.54      | 1.60           |
| 2017/01/24 16:44 | 2.26       | 86.87      | 1.66           |
| 2017/01/24 16:59 | 2.25       | 87.22      | 1.69           |
| 2017/01/24 17:14 | 2.25       | 87.22      | 1.69           |
| 2017/01/24 17:29 | 2.25       | 87.22      | 1.69           |
| 2017/01/24 17:44 | 2.25       | 87.22      | 1.69           |
| 2017/01/24 17:59 | 2.25       | 87.22      | 1.69           |
| 2017/01/24 18:14 | 2.29       | 89.58      | 1.69           |
| 2017/01/24 18:29 | 2.29       | 86.87      | 1.64           |
| 2017/01/24 18:44 | 2.29       | 86.87      | 1.64           |
| 2017/01/24 18:59 | 2.29       | 86.87      | 1.64           |
| 2017/01/24 19:14 | 2.32       | 92.22      | 1.71           |
| 2017/01/24 19:29 | 2.34       | 93.82      | 1.71           |
| 2017/01/24 19:44 | 2.41       | 99.24      | 1.73           |
| 2017/01/24 19:59 | 2.48       | 114.24     | 1.91           |
| 2017/01/24 20:14 | 2.48       | 129.03     | 2.16           |
| 2017/01/24 20:29 | 2.48       | 137.43     | 2.30           |
| 2017/01/24 20:44 | 2.53       | 140.76     | 2.30           |
| 2017/01/24 20:59 | 2.53       | 151.87     | 2.48           |
| 2017/01/24 21:14 | 2.54       | 143.75     | 2.33           |
| 2017/01/24 21:29 | 2.54       | 143.75     | 2.33           |
| 2017/01/24 21:44 | 2.54       | 143.75     | 2.33           |
| 2017/01/24 21:59 | 2.54       | 143.75     | 2.33           |
| 2017/01/24 22:14 | 2.55       | 143.68     | 2.31           |
| 2017/01/24 22:29 | 2.55       | 143.68     | 2.31           |
| 2017/01/24 22:44 | 2.54       | 133.89     | 2.17           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 22:59 | 2.51       | 123.33     | 2.03           |
| 2017/01/24 23:14 | 2.51       | 123.33     | 2.03           |
| 2017/01/24 23:29 | 2.51       | 122.99     | 2.02           |
| 2017/01/24 23:44 | 2.48       | 120.35     | 2.01           |
| 2017/01/24 23:59 | 2.39       | 107.08     | 1.90           |
| 2017/01/25 00:14 | 2.37       | 94.37      | 1.69           |
| 2017/01/25 00:29 | 2.33       | 89.10      | 1.63           |
| 2017/01/25 00:44 | 2.28       | 85.00      | 1.61           |
| 2017/01/25 00:59 | 2.25       | 81.94      | 1.58           |
| 2017/01/25 01:14 | 2.14       | 75.62      | 1.57           |
| 2017/01/25 01:29 | 2.04       | 62.57      | 1.39           |
| 2017/01/25 01:44 | 2.01       | 55.90      | 1.27           |
| 2017/01/25 01:59 | 1.89       | 43.89      | 1.09           |
| 2017/01/25 02:14 | 1.83       | 42.01      | 1.09           |
| 2017/01/25 02:29 | 1.83       | 39.44      | 1.03           |
| 2017/01/25 02:44 | 1.82       | 38.82      | 1.02           |
| 2017/01/25 02:59 | 1.78       | 37.57      | 1.02           |
| 2017/01/25 03:14 | 1.78       | 37.57      | 1.02           |
| 2017/01/25 03:29 | 1.78       | 37.57      | 1.02           |
| 2017/01/25 03:44 | 1.78       | 37.57      | 1.02           |
| 2017/01/25 03:59 | 1.79       | 37.99      | 1.02           |
| 2017/01/25 04:14 | 1.80       | 38.40      | 1.02           |
| 2017/01/25 04:29 | 1.80       | 38.40      | 1.02           |
| 2017/01/25 04:44 | 1.83       | 38.75      | 1.01           |
| 2017/01/25 04:59 | 1.83       | 37.78      | 0.98           |
| 2017/01/25 05:14 | 1.84       | 38.19      | 0.98           |
| 2017/01/25 05:29 | 1.84       | 39.17      | 1.01           |
| 2017/01/25 05:44 | 1.84       | 39.17      | 1.01           |
| 2017/01/25 05:59 | 1.91       | 47.85      | 1.17           |
| 2017/01/25 06:14 | 1.94       | 51.53      | 1.23           |
| 2017/01/25 06:29 | 2.00       | 54.03      | 1.24           |
| 2017/01/25 06:44 | 2.04       | 57.01      | 1.27           |
| 2017/01/25 06:59 | 2.04       | 60.56      | 1.35           |
| 2017/01/25 07:14 | 2.05       | 61.87      | 1.36           |
| 2017/01/25 07:29 | 2.26       | 72.71      | 1.39           |
| 2017/01/25 07:44 | 2.28       | 78.47      | 1.49           |
| 2017/01/25 07:59 | 2.32       | 92.22      | 1.71           |
| 2017/01/25 08:14 | 2.43       | 105.76     | 1.83           |
| 2017/01/25 08:29 | 2.46       | 131.81     | 2.24           |
| 2017/01/25 08:44 | 2.47       | 138.40     | 2.33           |
| 2017/01/25 08:59 | 2.47       | 144.31     | 2.43           |
| 2017/01/25 09:14 | 2.47       | 146.81     | 2.48           |
| 2017/01/25 09:29 | 2.46       | 145.62     | 2.48           |
| 2017/01/25 09:44 | 2.47       | 147.01     | 2.48           |
| 2017/01/25 09:59 | 2.48       | 148.19     | 2.48           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 10:14 | 2.48       | 151.46     | 2.53           |
| 2017/01/25 10:29 | 2.47       | 150.28     | 2.53           |
| 2017/01/25 10:44 | 2.47       | 146.81     | 2.48           |
| 2017/01/25 10:59 | 2.47       | 151.18     | 2.55           |
| 2017/01/25 11:14 | 2.50       | 154.51     | 2.57           |
| 2017/01/25 11:29 | 2.50       | 154.51     | 2.57           |
| 2017/01/25 11:44 | 2.53       | 157.01     | 2.57           |
| 2017/01/25 11:59 | 2.53       | 157.01     | 2.57           |
| 2017/01/25 12:14 | 2.53       | 151.25     | 2.47           |
| 2017/01/25 12:29 | 2.53       | 159.37     | 2.60           |
| 2017/01/25 12:44 | 2.47       | 146.46     | 2.47           |
| 2017/01/25 12:59 | 2.47       | 144.72     | 2.44           |
| 2017/01/25 13:14 | 2.47       | 142.08     | 2.40           |
| 2017/01/25 13:29 | 2.47       | 138.68     | 2.34           |
| 2017/01/25 13:44 | 2.47       | 129.03     | 2.18           |
| 2017/01/25 13:59 | 2.48       | 129.03     | 2.16           |
| 2017/01/25 14:14 | 2.48       | 127.50     | 2.13           |
| 2017/01/25 14:29 | 2.48       | 125.56     | 2.10           |
| 2017/01/25 14:44 | 2.48       | 120.49     | 2.02           |
| 2017/01/25 14:59 | 2.47       | 116.18     | 1.96           |
| 2017/01/25 15:14 | 2.37       | 104.79     | 1.87           |
| 2017/01/25 15:29 | 2.36       | 103.26     | 1.86           |
| 2017/01/25 15:44 | 2.36       | 103.26     | 1.86           |
| 2017/01/25 15:59 | 2.36       | 103.26     | 1.86           |
| 2017/01/25 16:14 | 2.33       | 98.82      | 1.81           |
| 2017/01/25 16:29 | 2.30       | 97.15      | 1.81           |
| 2017/01/25 16:44 | 2.30       | 97.15      | 1.81           |
| 2017/01/25 16:59 | 2.30       | 97.22      | 1.81           |
| 2017/01/25 17:14 | 2.30       | 97.22      | 1.81           |
| 2017/01/25 17:29 | 2.29       | 96.39      | 1.81           |
| 2017/01/25 17:44 | 2.29       | 91.74      | 1.73           |
| 2017/01/25 17:59 | 2.29       | 80.90      | 1.52           |
| 2017/01/25 18:14 | 2.29       | 96.39      | 1.81           |
| 2017/01/25 18:29 | 2.29       | 80.90      | 1.52           |
| 2017/01/25 18:44 | 2.29       | 80.90      | 1.52           |
| 2017/01/25 18:59 | 2.32       | 98.47      | 1.82           |
| 2017/01/25 19:14 | 2.34       | 85.00      | 1.55           |
| 2017/01/25 19:29 | 2.36       | 100.90     | 1.82           |
| 2017/01/25 19:44 | 2.36       | 105.76     | 1.91           |
| 2017/01/25 19:59 | 2.36       | 111.32     | 2.01           |
| 2017/01/25 20:14 | 2.40       | 114.17     | 2.01           |
| 2017/01/25 20:29 | 2.36       | 105.90     | 1.91           |
| 2017/01/25 20:44 | 2.47       | 107.85     | 1.82           |
| 2017/01/25 20:59 | 2.47       | 111.60     | 1.88           |
| 2017/01/25 21:14 | 2.50       | 115.00     | 1.91           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 21:29 | 2.50       | 114.31     | 1.90           |
| 2017/01/25 21:44 | 2.50       | 114.31     | 1.90           |
| 2017/01/25 21:59 | 2.51       | 114.37     | 1.88           |
| 2017/01/25 22:14 | 2.51       | 115.21     | 1.90           |
| 2017/01/25 22:29 | 2.51       | 123.06     | 2.03           |
| 2017/01/25 22:44 | 2.51       | 123.06     | 2.03           |
| 2017/01/25 22:59 | 2.46       | 111.53     | 1.90           |
| 2017/01/25 23:14 | 2.34       | 101.32     | 1.84           |
| 2017/01/25 23:29 | 2.34       | 99.51      | 1.81           |
| 2017/01/25 23:44 | 2.32       | 97.85      | 1.81           |
| 2017/01/25 23:59 | 2.32       | 96.18      | 1.78           |
| 2017/01/26 00:14 | 2.32       | 96.18      | 1.78           |
| 2017/01/26 00:29 | 2.32       | 91.46      | 1.69           |
| 2017/01/26 00:44 | 2.32       | 90.97      | 1.68           |
| 2017/01/26 00:59 | 2.32       | 90.97      | 1.68           |
| 2017/01/26 01:14 | 2.21       | 84.10      | 1.67           |
| 2017/01/26 01:29 | 2.11       | 76.53      | 1.62           |
| 2017/01/26 01:44 | 2.08       | 75.97      | 1.64           |
| 2017/01/26 01:59 | 1.96       | 68.06      | 1.61           |
| 2017/01/26 02:14 | 1.96       | 68.06      | 1.61           |
| 2017/01/26 02:29 | 1.94       | 63.82      | 1.53           |
| 2017/01/26 02:44 | 1.90       | 51.11      | 1.26           |
| 2017/01/26 02:59 | 1.87       | 48.68      | 1.23           |
| 2017/01/26 03:14 | 1.87       | 42.15      | 1.06           |
| 2017/01/26 03:29 | 1.86       | 40.97      | 1.04           |
| 2017/01/26 03:44 | 1.86       | 40.97      | 1.04           |
| 2017/01/26 03:59 | 1.83       | 39.65      | 1.03           |
| 2017/01/26 04:14 | 1.83       | 39.65      | 1.03           |
| 2017/01/26 04:29 | 1.84       | 40.07      | 1.03           |
| 2017/01/26 04:44 | 1.84       | 40.07      | 1.03           |
| 2017/01/26 04:59 | 1.86       | 42.29      | 1.08           |
| 2017/01/26 05:14 | 1.86       | 42.29      | 1.08           |
| 2017/01/26 05:29 | 1.86       | 42.29      | 1.08           |
| 2017/01/26 05:44 | 1.86       | 42.78      | 1.09           |
| 2017/01/26 05:59 | 1.89       | 44.58      | 1.11           |
| 2017/01/26 06:14 | 1.96       | 50.56      | 1.20           |
| 2017/01/26 06:29 | 1.96       | 54.86      | 1.30           |
| 2017/01/26 06:44 | 2.04       | 59.86      | 1.33           |
| 2017/01/26 06:59 | 2.07       | 68.40      | 1.49           |
| 2017/01/26 07:14 | 2.11       | 72.64      | 1.54           |
| 2017/01/26 07:29 | 2.12       | 79.86      | 1.68           |
| 2017/01/26 07:44 | 2.30       | 92.57      | 1.73           |
| 2017/01/26 07:59 | 2.43       | 104.44     | 1.81           |
| 2017/01/26 08:14 | 2.44       | 111.94     | 1.92           |
| 2017/01/26 08:29 | 2.46       | 112.85     | 1.92           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 08:44 | 2.44       | 122.99     | 2.11           |
| 2017/01/26 08:59 | 2.44       | 125.49     | 2.15           |
| 2017/01/26 09:14 | 2.44       | 131.46     | 2.25           |
| 2017/01/26 09:29 | 2.44       | 132.08     | 2.26           |
| 2017/01/26 09:44 | 2.44       | 131.46     | 2.25           |
| 2017/01/26 09:59 | 2.47       | 133.61     | 2.25           |
| 2017/01/26 10:14 | 2.44       | 135.21     | 2.32           |
| 2017/01/26 10:29 | 2.44       | 135.21     | 2.32           |
| 2017/01/26 10:44 | 2.47       | 133.61     | 2.25           |
| 2017/01/26 10:59 | 2.44       | 135.21     | 2.32           |
| 2017/01/26 11:14 | 2.44       | 130.14     | 2.23           |
| 2017/01/26 11:29 | 2.44       | 129.31     | 2.22           |
| 2017/01/26 11:44 | 2.44       | 117.50     | 2.01           |
| 2017/01/26 11:59 | 2.44       | 117.50     | 2.01           |
| 2017/01/26 12:14 | 2.44       | 108.75     | 1.86           |
| 2017/01/26 12:29 | 2.43       | 107.85     | 1.86           |
| 2017/01/26 12:44 | 2.40       | 100.00     | 1.76           |
| 2017/01/26 12:59 | 2.33       | 95.69      | 1.75           |
| 2017/01/26 13:14 | 2.32       | 94.86      | 1.75           |
| 2017/01/26 13:29 | 2.32       | 89.51      | 1.66           |
| 2017/01/26 13:44 | 2.30       | 88.68      | 1.66           |
| 2017/01/26 13:59 | 2.30       | 87.29      | 1.63           |
| 2017/01/26 14:14 | 2.30       | 87.29      | 1.63           |
| 2017/01/26 14:29 | 2.30       | 87.29      | 1.63           |
| 2017/01/26 14:44 | 2.29       | 86.60      | 1.63           |
| 2017/01/26 14:59 | 2.29       | 87.92      | 1.66           |
| 2017/01/26 15:14 | 2.28       | 78.96      | 1.50           |
| 2017/01/26 15:29 | 2.29       | 79.65      | 1.50           |
| 2017/01/26 15:44 | 2.29       | 85.49      | 1.61           |
| 2017/01/26 15:59 | 2.29       | 96.11      | 1.81           |
| 2017/01/26 16:14 | 2.28       | 96.46      | 1.83           |
| 2017/01/26 16:29 | 2.28       | 95.28      | 1.81           |
| 2017/01/26 16:44 | 2.28       | 96.11      | 1.83           |
| 2017/01/26 16:59 | 2.28       | 96.46      | 1.83           |
| 2017/01/26 17:14 | 2.28       | 96.60      | 1.83           |
| 2017/01/26 17:29 | 2.30       | 98.26      | 1.83           |
| 2017/01/26 17:44 | 2.30       | 98.26      | 1.83           |
| 2017/01/26 17:59 | 2.34       | 100.83     | 1.83           |
| 2017/01/26 18:14 | 2.41       | 107.43     | 1.87           |
| 2017/01/26 18:29 | 2.41       | 107.43     | 1.87           |
| 2017/01/26 18:44 | 2.41       | 105.21     | 1.83           |
| 2017/01/26 18:59 | 2.41       | 104.72     | 1.83           |
| 2017/01/26 19:14 | 2.44       | 124.03     | 2.13           |
| 2017/01/26 19:29 | 2.47       | 121.46     | 2.05           |
| 2017/01/26 19:44 | 2.39       | 107.71     | 1.91           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 19:59 | 2.39       | 107.71     | 1.91           |
| 2017/01/26 20:14 | 2.47       | 121.46     | 2.05           |
| 2017/01/26 20:29 | 2.47       | 121.46     | 2.05           |
| 2017/01/26 20:44 | 2.48       | 122.50     | 2.05           |
| 2017/01/26 20:59 | 2.48       | 122.50     | 2.05           |
| 2017/01/26 21:14 | 2.50       | 134.24     | 2.23           |
| 2017/01/26 21:29 | 2.50       | 137.43     | 2.28           |
| 2017/01/26 21:44 | 2.50       | 134.24     | 2.23           |
| 2017/01/26 21:59 | 2.48       | 121.11     | 2.03           |
| 2017/01/26 22:14 | 2.48       | 121.11     | 2.03           |
| 2017/01/26 22:29 | 2.43       | 117.22     | 2.03           |
| 2017/01/26 22:44 | 2.34       | 93.06      | 1.69           |
| 2017/01/26 22:59 | 2.34       | 93.06      | 1.69           |
| 2017/01/26 23:14 | 2.34       | 93.06      | 1.69           |
| 2017/01/26 23:29 | 2.34       | 92.71      | 1.69           |
| 2017/01/26 23:44 | 2.33       | 91.94      | 1.69           |
| 2017/01/26 23:59 | 2.32       | 83.89      | 1.55           |
| 2017/01/27 00:14 | 2.25       | 79.10      | 1.53           |
| 2017/01/27 00:29 | 2.11       | 67.57      | 1.43           |
| 2017/01/27 00:44 | 2.04       | 55.49      | 1.24           |
| 2017/01/27 00:59 | 2.03       | 52.36      | 1.18           |
| 2017/01/27 01:14 | 1.93       | 48.33      | 1.17           |
| 2017/01/27 01:29 | 1.91       | 47.64      | 1.16           |
| 2017/01/27 01:44 | 1.83       | 39.86      | 1.04           |
| 2017/01/27 01:59 | 1.83       | 39.44      | 1.03           |
| 2017/01/27 02:14 | 1.78       | 33.61      | 0.92           |
| 2017/01/27 02:29 | 1.78       | 33.61      | 0.92           |
| 2017/01/27 02:44 | 1.78       | 33.61      | 0.92           |
| 2017/01/27 02:59 | 1.78       | 33.47      | 0.91           |
| 2017/01/27 03:14 | 1.78       | 33.61      | 0.92           |
| 2017/01/27 03:29 | 1.78       | 33.12      | 0.90           |
| 2017/01/27 03:44 | 1.78       | 35.07      | 0.96           |
| 2017/01/27 03:59 | 1.78       | 35.07      | 0.96           |
| 2017/01/27 04:14 | 1.78       | 35.07      | 0.96           |
| 2017/01/27 04:29 | 1.78       | 35.69      | 0.97           |
| 2017/01/27 04:44 | 1.78       | 35.69      | 0.97           |
| 2017/01/27 04:59 | 1.78       | 37.15      | 1.01           |
| 2017/01/27 05:14 | 1.79       | 37.78      | 1.02           |
| 2017/01/27 05:29 | 1.80       | 38.47      | 1.03           |
| 2017/01/27 05:44 | 1.83       | 41.25      | 1.07           |
| 2017/01/27 05:59 | 1.93       | 49.93      | 1.21           |
| 2017/01/27 06:14 | 1.97       | 55.14      | 1.29           |
| 2017/01/27 06:29 | 1.98       | 55.69      | 1.29           |
| 2017/01/27 06:44 | 2.07       | 60.90      | 1.33           |
| 2017/01/27 06:59 | 2.11       | 67.43      | 1.43           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 07:14 | 2.22       | 76.25      | 1.50           |
| 2017/01/27 07:29 | 2.22       | 88.68      | 1.75           |
| 2017/01/27 07:44 | 2.44       | 133.12     | 2.28           |
| 2017/01/27 07:59 | 2.46       | 148.33     | 2.52           |
| 2017/01/27 08:14 | 2.55       | 156.87     | 2.52           |
| 2017/01/27 08:29 | 2.65       | 177.99     | 2.71           |
| 2017/01/27 08:44 | 2.65       | 177.99     | 2.71           |
| 2017/01/27 08:59 | 2.69       | 184.79     | 2.75           |
| 2017/01/27 09:14 | 2.65       | 177.99     | 2.71           |
| 2017/01/27 09:29 | 2.55       | 161.04     | 2.59           |
| 2017/01/27 09:44 | 2.55       | 157.99     | 2.54           |
| 2017/01/27 09:59 | 2.55       | 161.04     | 2.59           |
| 2017/01/27 10:14 | 2.55       | 161.04     | 2.59           |
| 2017/01/27 10:29 | 2.53       | 158.54     | 2.59           |
| 2017/01/27 10:44 | 2.50       | 153.06     | 2.54           |
| 2017/01/27 10:59 | 2.46       | 148.89     | 2.53           |
| 2017/01/27 11:14 | 2.40       | 142.57     | 2.51           |
| 2017/01/27 11:29 | 2.40       | 142.57     | 2.51           |
| 2017/01/27 11:44 | 2.40       | 142.57     | 2.51           |
| 2017/01/27 11:59 | 2.40       | 142.57     | 2.51           |
| 2017/01/27 12:14 | 2.40       | 142.57     | 2.51           |
| 2017/01/27 12:29 | 2.40       | 142.57     | 2.51           |
| 2017/01/27 12:44 | 2.40       | 137.57     | 2.42           |
| 2017/01/27 12:59 | 2.40       | 137.57     | 2.42           |
| 2017/01/27 13:14 | 2.40       | 137.85     | 2.42           |
| 2017/01/27 13:29 | 2.40       | 137.57     | 2.42           |
| 2017/01/27 13:44 | 2.40       | 132.85     | 2.33           |
| 2017/01/27 13:59 | 2.40       | 132.64     | 2.33           |
| 2017/01/27 14:14 | 2.41       | 131.74     | 2.30           |
| 2017/01/27 14:29 | 2.43       | 132.85     | 2.30           |
| 2017/01/27 14:44 | 2.43       | 130.49     | 2.26           |
| 2017/01/27 14:59 | 2.43       | 130.49     | 2.26           |
| 2017/01/27 15:14 | 2.41       | 126.32     | 2.20           |
| 2017/01/27 15:29 | 2.41       | 126.32     | 2.20           |
| 2017/01/27 15:44 | 2.43       | 120.28     | 2.08           |
| 2017/01/27 15:59 | 2.43       | 120.28     | 2.08           |
| 2017/01/27 16:14 | 2.43       | 119.10     | 2.06           |
| 2017/01/27 16:29 | 2.43       | 98.68      | 1.71           |
| 2017/01/27 16:44 | 2.43       | 98.68      | 1.71           |
| 2017/01/27 16:59 | 2.46       | 122.29     | 2.08           |
| 2017/01/27 17:14 | 2.46       | 122.29     | 2.08           |
| 2017/01/27 17:29 | 2.46       | 127.29     | 2.17           |
| 2017/01/27 17:44 | 2.46       | 126.60     | 2.15           |
| 2017/01/27 17:59 | 2.46       | 127.29     | 2.17           |
| 2017/01/27 18:14 | 2.46       | 130.76     | 2.22           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 18:29 | 2.44       | 126.25     | 2.17           |
| 2017/01/27 18:44 | 2.43       | 128.89     | 2.23           |
| 2017/01/27 18:59 | 2.43       | 128.89     | 2.23           |
| 2017/01/27 19:14 | 2.43       | 128.89     | 2.23           |
| 2017/01/27 19:29 | 2.43       | 128.89     | 2.23           |
| 2017/01/27 19:44 | 2.44       | 124.58     | 2.14           |
| 2017/01/27 19:59 | 2.43       | 119.79     | 2.07           |
| 2017/01/27 20:14 | 2.41       | 117.36     | 2.05           |
| 2017/01/27 20:29 | 2.37       | 104.93     | 1.88           |
| 2017/01/27 20:44 | 2.43       | 106.81     | 1.85           |
| 2017/01/27 20:59 | 2.37       | 100.90     | 1.80           |
| 2017/01/27 21:14 | 2.34       | 98.33      | 1.79           |
| 2017/01/27 21:29 | 2.29       | 95.00      | 1.79           |
| 2017/01/27 21:44 | 2.34       | 98.33      | 1.79           |
| 2017/01/27 21:59 | 2.34       | 88.75      | 1.61           |
| 2017/01/27 22:14 | 2.37       | 90.28      | 1.61           |
| 2017/01/27 22:29 | 2.37       | 90.28      | 1.61           |
| 2017/01/27 22:44 | 2.39       | 105.14     | 1.86           |
| 2017/01/27 22:59 | 2.39       | 105.14     | 1.86           |
| 2017/01/27 23:14 | 2.39       | 103.75     | 1.84           |
| 2017/01/27 23:29 | 2.37       | 101.25     | 1.81           |
| 2017/01/27 23:44 | 2.34       | 99.93      | 1.82           |
| 2017/01/27 23:59 | 2.34       | 99.93      | 1.82           |
| 2017/01/28 00:14 | 2.29       | 96.11      | 1.81           |
| 2017/01/28 00:29 | 2.23       | 89.93      | 1.75           |
| 2017/01/28 00:44 | 2.18       | 80.00      | 1.62           |
| 2017/01/28 00:59 | 2.08       | 74.17      | 1.60           |
| 2017/01/28 01:14 | 2.03       | 66.87      | 1.50           |
| 2017/01/28 01:29 | 2.00       | 57.85      | 1.33           |
| 2017/01/28 01:44 | 2.00       | 50.76      | 1.16           |
| 2017/01/28 01:59 | 1.97       | 49.72      | 1.16           |
| 2017/01/28 02:14 | 1.97       | 49.72      | 1.16           |
| 2017/01/28 02:29 | 1.94       | 47.85      | 1.14           |
| 2017/01/28 02:44 | 1.94       | 47.85      | 1.14           |
| 2017/01/28 02:59 | 1.93       | 47.36      | 1.14           |
| 2017/01/28 03:14 | 1.91       | 46.87      | 1.14           |
| 2017/01/28 03:29 | 1.89       | 46.11      | 1.15           |
| 2017/01/28 03:44 | 1.87       | 45.42      | 1.14           |
| 2017/01/28 03:59 | 1.83       | 42.08      | 1.10           |
| 2017/01/28 04:14 | 1.87       | 43.54      | 1.10           |
| 2017/01/28 04:29 | 1.83       | 41.60      | 1.08           |
| 2017/01/28 04:44 | 1.82       | 40.42      | 1.07           |
| 2017/01/28 04:59 | 1.82       | 40.42      | 1.07           |
| 2017/01/28 05:14 | 1.82       | 39.58      | 1.04           |
| 2017/01/28 05:29 | 1.82       | 40.42      | 1.07           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 05:44 | 1.86       | 40.90      | 1.04           |
| 2017/01/28 05:59 | 1.86       | 40.90      | 1.04           |
| 2017/01/28 06:14 | 1.86       | 44.17      | 1.13           |
| 2017/01/28 06:29 | 1.96       | 50.21      | 1.19           |
| 2017/01/28 06:44 | 1.97       | 54.79      | 1.28           |
| 2017/01/28 06:59 | 2.01       | 59.03      | 1.34           |
| 2017/01/28 07:14 | 2.05       | 61.11      | 1.35           |
| 2017/01/28 07:29 | 2.18       | 75.35      | 1.52           |
| 2017/01/28 07:44 | 2.18       | 76.04      | 1.54           |
| 2017/01/28 07:59 | 2.33       | 92.57      | 1.70           |
| 2017/01/28 08:14 | 2.34       | 101.39     | 1.84           |
| 2017/01/28 08:29 | 2.37       | 123.61     | 2.21           |
| 2017/01/28 08:44 | 2.37       | 128.26     | 2.29           |
| 2017/01/28 08:59 | 2.40       | 137.22     | 2.41           |
| 2017/01/28 09:14 | 2.41       | 141.25     | 2.46           |
| 2017/01/28 09:29 | 2.41       | 141.46     | 2.47           |
| 2017/01/28 09:44 | 2.41       | 141.46     | 2.47           |
| 2017/01/28 09:59 | 2.41       | 141.25     | 2.46           |
| 2017/01/28 10:14 | 2.51       | 151.60     | 2.50           |
| 2017/01/28 10:29 | 2.53       | 153.75     | 2.51           |
| 2017/01/28 10:44 | 2.53       | 162.99     | 2.66           |
| 2017/01/28 10:59 | 2.59       | 169.51     | 2.66           |
| 2017/01/28 11:14 | 2.59       | 169.51     | 2.66           |
| 2017/01/28 11:29 | 2.59       | 169.51     | 2.66           |
| 2017/01/28 11:44 | 2.59       | 169.51     | 2.66           |
| 2017/01/28 11:59 | 2.59       | 168.96     | 2.65           |
| 2017/01/28 12:14 | 2.58       | 164.65     | 2.61           |
| 2017/01/28 12:29 | 2.55       | 160.35     | 2.58           |
| 2017/01/28 12:44 | 2.44       | 144.58     | 2.48           |
| 2017/01/28 12:59 | 2.43       | 138.96     | 2.40           |
| 2017/01/28 13:14 | 2.41       | 137.50     | 2.40           |
| 2017/01/28 13:29 | 2.41       | 137.15     | 2.39           |
| 2017/01/28 13:44 | 2.41       | 133.96     | 2.33           |
| 2017/01/28 13:59 | 2.41       | 121.32     | 2.11           |
| 2017/01/28 14:14 | 2.41       | 116.67     | 2.03           |
| 2017/01/28 14:29 | 2.41       | 109.65     | 1.91           |
| 2017/01/28 14:44 | 2.41       | 109.65     | 1.91           |
| 2017/01/28 14:59 | 2.41       | 106.53     | 1.86           |
| 2017/01/28 15:14 | 2.43       | 110.62     | 1.91           |
| 2017/01/28 15:29 | 2.43       | 107.43     | 1.86           |
| 2017/01/28 15:44 | 2.41       | 102.85     | 1.79           |
| 2017/01/28 15:59 | 2.34       | 97.71      | 1.78           |
| 2017/01/28 16:14 | 2.34       | 97.71      | 1.78           |
| 2017/01/28 16:29 | 2.33       | 96.87      | 1.78           |
| 2017/01/28 16:44 | 2.34       | 97.71      | 1.78           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 16:59 | 2.34       | 97.71      | 1.78           |
| 2017/01/28 17:14 | 2.37       | 116.32     | 2.08           |
| 2017/01/28 17:29 | 2.41       | 122.08     | 2.13           |
| 2017/01/28 17:44 | 2.41       | 125.76     | 2.19           |
| 2017/01/28 17:59 | 2.41       | 133.61     | 2.33           |
| 2017/01/28 18:14 | 2.44       | 135.83     | 2.33           |
| 2017/01/28 18:29 | 2.44       | 135.83     | 2.33           |
| 2017/01/28 18:44 | 2.41       | 133.61     | 2.33           |
| 2017/01/28 18:59 | 2.43       | 128.26     | 2.22           |
| 2017/01/28 19:14 | 2.44       | 129.31     | 2.22           |
| 2017/01/28 19:29 | 2.46       | 130.35     | 2.22           |
| 2017/01/28 19:44 | 2.44       | 123.40     | 2.12           |
| 2017/01/28 19:59 | 2.43       | 114.65     | 1.98           |
| 2017/01/28 20:14 | 2.43       | 111.60     | 1.93           |
| 2017/01/28 20:29 | 2.43       | 108.54     | 1.88           |
| 2017/01/28 20:44 | 2.43       | 114.65     | 1.98           |
| 2017/01/28 20:59 | 2.43       | 114.65     | 1.98           |
| 2017/01/28 21:14 | 2.41       | 107.64     | 1.88           |
| 2017/01/28 21:29 | 2.41       | 98.75      | 1.72           |
| 2017/01/28 21:44 | 2.41       | 98.75      | 1.72           |
| 2017/01/28 21:59 | 2.32       | 93.06      | 1.72           |
| 2017/01/28 22:14 | 2.25       | 89.10      | 1.72           |
| 2017/01/28 22:29 | 2.25       | 89.03      | 1.72           |
| 2017/01/28 22:44 | 2.25       | 84.51      | 1.63           |
| 2017/01/28 22:59 | 2.26       | 82.57      | 1.58           |
| 2017/01/28 23:14 | 2.26       | 76.94      | 1.47           |
| 2017/01/28 23:29 | 2.26       | 76.94      | 1.47           |
| 2017/01/28 23:44 | 2.32       | 85.56      | 1.58           |
| 2017/01/28 23:59 | 2.32       | 82.50      | 1.53           |
| 2017/01/29 00:14 | 2.26       | 77.29      | 1.48           |
| 2017/01/29 00:29 | 2.21       | 74.58      | 1.48           |
| 2017/01/29 00:44 | 2.09       | 69.17      | 1.48           |
| 2017/01/29 00:59 | 2.08       | 68.54      | 1.48           |
| 2017/01/29 01:14 | 2.08       | 65.69      | 1.42           |
| 2017/01/29 01:29 | 2.03       | 56.81      | 1.28           |
| 2017/01/29 01:44 | 2.00       | 55.42      | 1.27           |
| 2017/01/29 01:59 | 2.00       | 54.86      | 1.26           |
| 2017/01/29 02:14 | 1.97       | 48.75      | 1.14           |
| 2017/01/29 02:29 | 1.90       | 45.76      | 1.13           |
| 2017/01/29 02:44 | 1.79       | 38.19      | 1.03           |
| 2017/01/29 02:59 | 1.79       | 38.19      | 1.03           |
| 2017/01/29 03:14 | 1.79       | 38.19      | 1.03           |
| 2017/01/29 03:29 | 1.79       | 37.99      | 1.02           |
| 2017/01/29 03:44 | 1.78       | 35.76      | 0.98           |
| 2017/01/29 03:59 | 1.76       | 34.93      | 0.96           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 04:14 | 1.76       | 34.37      | 0.95           |
| 2017/01/29 04:29 | 1.76       | 33.89      | 0.93           |
| 2017/01/29 04:44 | 1.72       | 32.64      | 0.93           |
| 2017/01/29 04:59 | 1.68       | 30.83      | 0.91           |
| 2017/01/29 05:14 | 1.68       | 30.83      | 0.91           |
| 2017/01/29 05:29 | 1.68       | 31.53      | 0.93           |
| 2017/01/29 05:44 | 1.68       | 31.53      | 0.93           |
| 2017/01/29 05:59 | 1.73       | 33.33      | 0.94           |
| 2017/01/29 06:14 | 1.73       | 34.51      | 0.97           |
| 2017/01/29 06:29 | 1.79       | 37.57      | 1.01           |
| 2017/01/29 06:44 | 1.84       | 41.60      | 1.07           |
| 2017/01/29 06:59 | 1.90       | 48.33      | 1.19           |
| 2017/01/29 07:14 | 2.00       | 52.01      | 1.19           |
| 2017/01/29 07:29 | 2.05       | 55.56      | 1.23           |
| 2017/01/29 07:44 | 2.14       | 65.69      | 1.37           |
| 2017/01/29 07:59 | 2.19       | 72.99      | 1.46           |
| 2017/01/29 08:14 | 2.40       | 101.74     | 1.79           |
| 2017/01/29 08:29 | 2.41       | 102.57     | 1.79           |
| 2017/01/29 08:44 | 2.43       | 122.22     | 2.11           |
| 2017/01/29 08:59 | 2.43       | 123.12     | 2.13           |
| 2017/01/29 09:14 | 2.47       | 135.00     | 2.28           |
| 2017/01/29 09:29 | 2.47       | 136.60     | 2.30           |
| 2017/01/29 09:44 | 2.50       | 139.58     | 2.32           |
| 2017/01/29 09:59 | 2.50       | 151.67     | 2.52           |
| 2017/01/29 10:14 | 2.50       | 155.28     | 2.58           |
| 2017/01/29 10:29 | 2.50       | 155.28     | 2.58           |
| 2017/01/29 10:44 | 2.50       | 155.28     | 2.58           |
| 2017/01/29 10:59 | 2.55       | 161.87     | 2.60           |
| 2017/01/29 11:14 | 2.55       | 161.87     | 2.60           |
| 2017/01/29 11:29 | 2.47       | 152.78     | 2.58           |
| 2017/01/29 11:44 | 2.47       | 150.00     | 2.53           |
| 2017/01/29 11:59 | 2.46       | 144.72     | 2.46           |
| 2017/01/29 12:14 | 2.46       | 144.72     | 2.46           |
| 2017/01/29 12:29 | 2.46       | 144.72     | 2.46           |
| 2017/01/29 12:44 | 2.44       | 140.69     | 2.41           |
| 2017/01/29 12:59 | 2.41       | 137.15     | 2.39           |
| 2017/01/29 13:14 | 2.41       | 136.32     | 2.38           |
| 2017/01/29 13:29 | 2.40       | 135.14     | 2.38           |
| 2017/01/29 13:44 | 2.40       | 133.26     | 2.34           |
| 2017/01/29 13:59 | 2.40       | 130.42     | 2.29           |
| 2017/01/29 14:14 | 2.39       | 123.68     | 2.19           |
| 2017/01/29 14:29 | 2.32       | 109.44     | 2.02           |
| 2017/01/29 14:44 | 2.32       | 99.31      | 1.84           |
| 2017/01/29 14:59 | 2.32       | 99.31      | 1.84           |
| 2017/01/29 15:14 | 2.32       | 109.44     | 2.02           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 15:29 | 2.32       | 87.92      | 1.63           |
| 2017/01/29 15:44 | 2.32       | 87.92      | 1.63           |
| 2017/01/29 15:59 | 2.32       | 87.92      | 1.63           |
| 2017/01/29 16:14 | 2.32       | 103.68     | 1.92           |
| 2017/01/29 16:29 | 2.34       | 105.49     | 1.92           |
| 2017/01/29 16:44 | 2.40       | 109.10     | 1.92           |
| 2017/01/29 16:59 | 2.37       | 96.39      | 1.72           |
| 2017/01/29 17:14 | 2.40       | 109.10     | 1.92           |
| 2017/01/29 17:29 | 2.43       | 119.93     | 2.07           |
| 2017/01/29 17:44 | 2.43       | 120.28     | 2.08           |
| 2017/01/29 17:59 | 2.43       | 127.43     | 2.20           |
| 2017/01/29 18:14 | 2.44       | 129.51     | 2.22           |
| 2017/01/29 18:29 | 2.46       | 130.21     | 2.21           |
| 2017/01/29 18:44 | 2.46       | 131.53     | 2.24           |
| 2017/01/29 18:59 | 2.44       | 132.08     | 2.26           |
| 2017/01/29 19:14 | 2.43       | 132.01     | 2.28           |
| 2017/01/29 19:29 | 2.43       | 132.01     | 2.28           |
| 2017/01/29 19:44 | 2.43       | 136.46     | 2.36           |
| 2017/01/29 19:59 | 2.43       | 136.46     | 2.36           |
| 2017/01/29 20:14 | 2.43       | 136.46     | 2.36           |
| 2017/01/29 20:29 | 2.43       | 140.62     | 2.43           |
| 2017/01/29 20:44 | 2.43       | 140.97     | 2.44           |
| 2017/01/29 20:59 | 2.43       | 140.97     | 2.44           |
| 2017/01/29 21:14 | 2.44       | 142.64     | 2.45           |
| 2017/01/29 21:29 | 2.44       | 142.15     | 2.44           |
| 2017/01/29 21:44 | 2.44       | 136.94     | 2.35           |
| 2017/01/29 21:59 | 2.44       | 136.94     | 2.35           |
| 2017/01/29 22:14 | 2.46       | 131.25     | 2.23           |
| 2017/01/29 22:29 | 2.46       | 130.49     | 2.22           |
| 2017/01/29 22:44 | 2.41       | 121.53     | 2.12           |
| 2017/01/29 22:59 | 2.36       | 99.79      | 1.80           |
| 2017/01/29 23:14 | 2.33       | 93.82      | 1.72           |
| 2017/01/29 23:29 | 2.33       | 85.69      | 1.57           |
| 2017/01/29 23:44 | 2.19       | 78.40      | 1.57           |
| 2017/01/29 23:59 | 2.14       | 70.35      | 1.46           |
| 2017/01/30 00:14 | 2.05       | 64.31      | 1.42           |
| 2017/01/30 00:29 | 2.04       | 62.78      | 1.40           |
| 2017/01/30 00:44 | 2.00       | 57.71      | 1.32           |
| 2017/01/30 00:59 | 1.96       | 52.43      | 1.24           |
| 2017/01/30 01:14 | 1.93       | 50.28      | 1.21           |
| 2017/01/30 01:29 | 1.89       | 48.68      | 1.21           |
| 2017/01/30 01:44 | 1.89       | 47.92      | 1.19           |
| 2017/01/30 01:59 | 1.86       | 46.81      | 1.19           |
| 2017/01/30 02:14 | 1.83       | 44.44      | 1.16           |
| 2017/01/30 02:29 | 1.83       | 42.99      | 1.12           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 02:44 | 1.80       | 40.00      | 1.07           |
| 2017/01/30 02:59 | 1.80       | 39.37      | 1.05           |
| 2017/01/30 03:14 | 1.76       | 34.65      | 0.96           |
| 2017/01/30 03:29 | 1.76       | 34.65      | 0.96           |
| 2017/01/30 03:44 | 1.73       | 31.04      | 0.88           |
| 2017/01/30 03:59 | 1.73       | 30.42      | 0.86           |
| 2017/01/30 04:14 | 1.72       | 30.07      | 0.86           |
| 2017/01/30 04:29 | 1.73       | 31.04      | 0.88           |
| 2017/01/30 04:44 | 1.73       | 32.15      | 0.91           |
| 2017/01/30 04:59 | 1.75       | 33.06      | 0.92           |
| 2017/01/30 05:14 | 1.75       | 33.06      | 0.92           |
| 2017/01/30 05:29 | 1.80       | 35.76      | 0.95           |
| 2017/01/30 05:44 | 1.84       | 37.64      | 0.97           |
| 2017/01/30 05:59 | 1.86       | 41.60      | 1.06           |
| 2017/01/30 06:14 | 1.91       | 45.56      | 1.11           |
| 2017/01/30 06:29 | 1.98       | 51.67      | 1.20           |
| 2017/01/30 06:44 | 2.00       | 55.35      | 1.27           |
| 2017/01/30 06:59 | 2.16       | 75.00      | 1.53           |
| 2017/01/30 07:14 | 2.33       | 86.60      | 1.59           |
| 2017/01/30 07:29 | 2.36       | 125.83     | 2.27           |
| 2017/01/30 07:44 | 2.39       | 139.72     | 2.48           |
| 2017/01/30 07:59 | 2.65       | 176.25     | 2.69           |
| 2017/01/30 08:14 | 2.69       | 180.28     | 2.69           |
| 2017/01/30 08:29 | 2.73       | 187.15     | 2.73           |
| 2017/01/30 08:44 | 2.73       | 187.15     | 2.73           |
| 2017/01/30 08:59 | 2.73       | 187.15     | 2.73           |
| 2017/01/30 09:14 | 2.73       | 186.87     | 2.72           |
| 2017/01/30 09:29 | 2.66       | 177.57     | 2.69           |
| 2017/01/30 09:44 | 2.47       | 147.57     | 2.49           |
| 2017/01/30 09:59 | 2.47       | 147.57     | 2.49           |
| 2017/01/30 10:14 | 2.47       | 147.57     | 2.49           |
| 2017/01/30 10:29 | 2.48       | 149.93     | 2.51           |
| 2017/01/30 10:44 | 2.66       | 177.92     | 2.69           |
| 2017/01/30 10:59 | 2.48       | 152.01     | 2.54           |
| 2017/01/30 11:14 | 2.48       | 152.01     | 2.54           |
| 2017/01/30 11:29 | 2.51       | 155.69     | 2.56           |
| 2017/01/30 11:44 | 2.48       | 152.01     | 2.54           |
| 2017/01/30 11:59 | 2.48       | 152.01     | 2.54           |
| 2017/01/30 12:14 | 2.46       | 144.79     | 2.46           |
| 2017/01/30 12:29 | 2.46       | 144.79     | 2.46           |
| 2017/01/30 12:44 | 2.43       | 142.01     | 2.46           |
| 2017/01/30 12:59 | 2.43       | 142.01     | 2.46           |
| 2017/01/30 13:14 | 2.40       | 131.25     | 2.31           |
| 2017/01/30 13:29 | 2.40       | 131.25     | 2.31           |
| 2017/01/30 13:44 | 2.40       | 132.85     | 2.33           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 13:59 | 2.40       | 132.85     | 2.33           |
| 2017/01/30 14:14 | 2.40       | 125.69     | 2.21           |
| 2017/01/30 14:29 | 2.43       | 123.89     | 2.14           |
| 2017/01/30 14:44 | 2.44       | 127.15     | 2.18           |
| 2017/01/30 14:59 | 2.44       | 127.15     | 2.18           |
| 2017/01/30 15:14 | 2.47       | 129.24     | 2.18           |
| 2017/01/30 15:29 | 2.47       | 129.24     | 2.18           |
| 2017/01/30 15:44 | 2.47       | 129.24     | 2.18           |
| 2017/01/30 15:59 | 2.44       | 127.15     | 2.18           |
| 2017/01/30 16:14 | 2.44       | 127.15     | 2.18           |
| 2017/01/30 16:29 | 2.44       | 113.19     | 1.94           |
| 2017/01/30 16:44 | 2.43       | 112.29     | 1.94           |
| 2017/01/30 16:59 | 2.40       | 100.35     | 1.76           |
| 2017/01/30 17:14 | 2.39       | 99.51      | 1.76           |
| 2017/01/30 17:29 | 2.36       | 97.85      | 1.76           |
| 2017/01/30 17:44 | 2.36       | 97.85      | 1.76           |
| 2017/01/30 17:59 | 2.36       | 102.92     | 1.86           |
| 2017/01/30 18:14 | 2.36       | 102.92     | 1.86           |
| 2017/01/30 18:29 | 2.39       | 112.15     | 1.99           |
| 2017/01/30 18:44 | 2.39       | 118.61     | 2.10           |
| 2017/01/30 18:59 | 2.50       | 130.00     | 2.16           |
| 2017/01/30 19:14 | 2.50       | 134.58     | 2.23           |
| 2017/01/30 19:29 | 2.47       | 139.86     | 2.36           |
| 2017/01/30 19:44 | 2.47       | 138.06     | 2.33           |
| 2017/01/30 19:59 | 2.50       | 142.15     | 2.36           |
| 2017/01/30 20:14 | 2.47       | 140.76     | 2.37           |
| 2017/01/30 20:29 | 2.47       | 139.86     | 2.36           |
| 2017/01/30 20:44 | 2.47       | 140.76     | 2.37           |
| 2017/01/30 20:59 | 2.46       | 139.58     | 2.37           |
| 2017/01/30 21:14 | 2.46       | 136.94     | 2.33           |
| 2017/01/30 21:29 | 2.47       | 138.12     | 2.33           |
| 2017/01/30 21:44 | 2.47       | 133.89     | 2.26           |
| 2017/01/30 21:59 | 2.46       | 131.60     | 2.24           |
| 2017/01/30 22:14 | 2.46       | 131.60     | 2.24           |
| 2017/01/30 22:29 | 2.47       | 129.65     | 2.19           |
| 2017/01/30 22:44 | 2.47       | 106.94     | 1.80           |
| 2017/01/30 22:59 | 2.40       | 102.43     | 1.80           |
| 2017/01/30 23:14 | 2.40       | 98.19      | 1.73           |
| 2017/01/30 23:29 | 2.39       | 90.56      | 1.61           |
| 2017/01/30 23:44 | 2.33       | 86.39      | 1.58           |
| 2017/01/30 23:59 | 2.33       | 86.39      | 1.58           |
| 2017/01/31 00:14 | 2.26       | 82.64      | 1.58           |
| 2017/01/31 00:29 | 2.14       | 73.33      | 1.53           |
| 2017/01/31 00:44 | 2.08       | 70.56      | 1.53           |
| 2017/01/31 00:59 | 2.04       | 67.57      | 1.50           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 01:14 | 2.00       | 63.19      | 1.45           |
| 2017/01/31 01:29 | 1.90       | 53.61      | 1.32           |
| 2017/01/31 01:44 | 1.90       | 52.64      | 1.30           |
| 2017/01/31 01:59 | 1.90       | 49.79      | 1.23           |
| 2017/01/31 02:14 | 1.84       | 45.07      | 1.16           |
| 2017/01/31 02:29 | 1.84       | 43.54      | 1.12           |
| 2017/01/31 02:44 | 1.84       | 39.65      | 1.02           |
| 2017/01/31 02:59 | 1.82       | 38.26      | 1.01           |
| 2017/01/31 03:14 | 1.80       | 36.53      | 0.97           |
| 2017/01/31 03:29 | 1.80       | 36.53      | 0.97           |
| 2017/01/31 03:44 | 1.79       | 36.11      | 0.97           |
| 2017/01/31 03:59 | 1.79       | 36.67      | 0.99           |
| 2017/01/31 04:14 | 1.79       | 37.43      | 1.01           |
| 2017/01/31 04:29 | 1.79       | 37.43      | 1.01           |
| 2017/01/31 04:44 | 1.79       | 38.26      | 1.03           |
| 2017/01/31 04:59 | 1.79       | 38.61      | 1.04           |
| 2017/01/31 05:14 | 1.84       | 40.97      | 1.06           |
| 2017/01/31 05:29 | 1.86       | 41.94      | 1.07           |
| 2017/01/31 05:44 | 1.93       | 44.58      | 1.08           |
| 2017/01/31 05:59 | 1.96       | 51.81      | 1.23           |
| 2017/01/31 06:14 | 1.98       | 55.69      | 1.29           |
| 2017/01/31 06:29 | 2.00       | 56.25      | 1.29           |
| 2017/01/31 06:44 | 2.09       | 61.60      | 1.32           |
| 2017/01/31 06:59 | 2.21       | 73.47      | 1.46           |
| 2017/01/31 07:14 | 2.25       | 78.06      | 1.51           |
| 2017/01/31 07:29 | 2.50       | 128.82     | 2.14           |
| 2017/01/31 07:44 | 2.53       | 148.96     | 2.43           |
| 2017/01/31 07:59 | 2.73       | 184.30     | 2.69           |
| 2017/01/31 08:14 | 2.73       | 184.30     | 2.69           |
| 2017/01/31 08:29 | 2.73       | 184.30     | 2.69           |
| 2017/01/31 08:44 | 2.73       | 185.83     | 2.71           |
| 2017/01/31 08:59 | 2.69       | 180.28     | 2.69           |
| 2017/01/31 09:14 | 2.69       | 177.57     | 2.65           |
| 2017/01/31 09:29 | 2.66       | 174.79     | 2.64           |
| 2017/01/31 09:44 | 2.61       | 168.06     | 2.62           |
| 2017/01/31 09:59 | 2.59       | 162.71     | 2.56           |
| 2017/01/31 10:14 | 2.59       | 162.71     | 2.56           |
| 2017/01/31 10:29 | 2.59       | 162.71     | 2.56           |
| 2017/01/31 10:44 | 2.51       | 150.35     | 2.48           |
| 2017/01/31 10:59 | 2.50       | 141.46     | 2.35           |
| 2017/01/31 11:14 | 2.50       | 141.87     | 2.35           |
| 2017/01/31 11:29 | 2.51       | 150.35     | 2.48           |
| 2017/01/31 11:44 | 2.51       | 142.99     | 2.35           |
| 2017/01/31 11:59 | 2.51       | 138.06     | 2.27           |
| 2017/01/31 12:14 | 2.50       | 133.61     | 2.22           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 12:29 | 2.46       | 130.35     | 2.22           |
| 2017/01/31 12:44 | 2.46       | 130.97     | 2.23           |
| 2017/01/31 12:59 | 2.46       | 128.68     | 2.19           |
| 2017/01/31 13:14 | 2.46       | 128.68     | 2.19           |
| 2017/01/31 13:29 | 2.46       | 128.68     | 2.19           |
| 2017/01/31 13:44 | 2.46       | 130.97     | 2.23           |
| 2017/01/31 13:59 | 2.46       | 130.97     | 2.23           |
| 2017/01/31 14:14 | 2.46       | 130.97     | 2.23           |
| 2017/01/31 14:29 | 2.46       | 128.68     | 2.19           |
| 2017/01/31 14:44 | 2.41       | 104.86     | 1.83           |
| 2017/01/31 14:59 | 2.34       | 92.36      | 1.68           |
| 2017/01/31 15:14 | 2.33       | 91.18      | 1.67           |
| 2017/01/31 15:29 | 2.30       | 84.24      | 1.57           |
| 2017/01/31 15:44 | 2.30       | 80.28      | 1.50           |
| 2017/01/31 15:59 | 2.28       | 78.89      | 1.50           |
| 2017/01/31 16:14 | 2.28       | 78.89      | 1.50           |
| 2017/01/31 16:29 | 2.28       | 76.25      | 1.45           |
| 2017/01/31 16:44 | 2.30       | 77.57      | 1.45           |
| 2017/01/31 16:59 | 2.32       | 80.97      | 1.50           |
| 2017/01/31 17:14 | 2.32       | 78.26      | 1.45           |
| 2017/01/31 17:29 | 2.32       | 86.74      | 1.61           |
| 2017/01/31 17:44 | 2.32       | 90.97      | 1.68           |
| 2017/01/31 17:59 | 2.33       | 91.74      | 1.68           |
| 2017/01/31 18:14 | 2.32       | 95.35      | 1.76           |
| 2017/01/31 18:29 | 2.32       | 95.35      | 1.76           |
| 2017/01/31 18:44 | 2.33       | 98.47      | 1.81           |
| 2017/01/31 18:59 | 2.43       | 114.31     | 1.98           |
| 2017/01/31 19:14 | 2.43       | 126.67     | 2.19           |
| 2017/01/31 19:29 | 2.43       | 133.47     | 2.31           |
| 2017/01/31 19:44 | 2.44       | 136.67     | 2.34           |
| 2017/01/31 19:59 | 2.44       | 136.67     | 2.34           |
| 2017/01/31 20:14 | 2.43       | 135.56     | 2.34           |
| 2017/01/31 20:29 | 2.43       | 135.56     | 2.34           |
| 2017/01/31 20:44 | 2.44       | 133.06     | 2.28           |
| 2017/01/31 20:59 | 2.44       | 130.76     | 2.24           |
| 2017/01/31 21:14 | 2.44       | 130.76     | 2.24           |
| 2017/01/31 21:29 | 2.44       | 127.99     | 2.19           |
| 2017/01/31 21:44 | 2.46       | 131.81     | 2.24           |
| 2017/01/31 21:59 | 2.47       | 130.07     | 2.19           |
| 2017/01/31 22:14 | 2.46       | 128.19     | 2.18           |
| 2017/01/31 22:29 | 2.46       | 122.36     | 2.08           |
| 2017/01/31 22:44 | 2.39       | 111.11     | 1.97           |
| 2017/01/31 22:59 | 2.36       | 97.64      | 1.76           |
| 2017/01/31 23:14 | 2.34       | 91.32      | 1.66           |
| 2017/01/31 23:29 | 2.33       | 85.42      | 1.57           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 23:44 | 2.32       | 82.08      | 1.52           |
| 2017/01/31 23:59 | 2.30       | 76.11      | 1.42           |
| 2017/02/01 00:14 | 2.28       | 74.79      | 1.42           |
| 2017/02/01 00:29 | 2.11       | 65.42      | 1.39           |
| 2017/02/01 00:44 | 2.09       | 64.44      | 1.38           |
| 2017/02/01 00:59 | 1.97       | 50.83      | 1.19           |
| 2017/02/01 01:14 | 1.94       | 49.79      | 1.19           |
| 2017/02/01 01:29 | 1.87       | 44.37      | 1.12           |
| 2017/02/01 01:44 | 1.82       | 40.14      | 1.06           |
| 2017/02/01 01:59 | 1.79       | 38.96      | 1.05           |
| 2017/02/01 02:14 | 1.79       | 37.43      | 1.01           |
| 2017/02/01 02:29 | 1.79       | 35.83      | 0.97           |
| 2017/02/01 02:44 | 1.79       | 37.43      | 1.01           |
| 2017/02/01 02:59 | 1.79       | 37.43      | 1.01           |
| 2017/02/01 03:14 | 1.79       | 37.43      | 1.01           |
| 2017/02/01 03:29 | 1.79       | 37.57      | 1.01           |
| 2017/02/01 03:44 | 1.79       | 37.57      | 1.01           |
| 2017/02/01 03:59 | 1.79       | 37.57      | 1.01           |
| 2017/02/01 04:14 | 1.80       | 39.37      | 1.05           |
| 2017/02/01 04:29 | 1.80       | 41.11      | 1.10           |
| 2017/02/01 04:44 | 1.80       | 40.00      | 1.07           |
| 2017/02/01 04:59 | 1.80       | 40.00      | 1.07           |
| 2017/02/01 05:14 | 1.80       | 41.11      | 1.10           |
| 2017/02/01 05:29 | 1.84       | 43.40      | 1.12           |
| 2017/02/01 05:44 | 1.89       | 46.11      | 1.15           |
| 2017/02/01 05:59 | 1.89       | 47.08      | 1.17           |
| 2017/02/01 06:14 | 1.94       | 49.17      | 1.17           |
| 2017/02/01 06:29 | 1.98       | 56.81      | 1.32           |
| 2017/02/01 06:44 | 2.12       | 63.26      | 1.33           |
| 2017/02/01 06:59 | 2.18       | 69.37      | 1.40           |
| 2017/02/01 07:14 | 2.33       | 87.08      | 1.60           |
| 2017/02/01 07:29 | 2.53       | 131.81     | 2.15           |
| 2017/02/01 07:44 | 2.64       | 142.92     | 2.19           |
| 2017/02/01 07:59 | 2.75       | 181.87     | 2.63           |
| 2017/02/01 08:14 | 2.75       | 182.57     | 2.64           |
| 2017/02/01 08:29 | 2.75       | 182.57     | 2.64           |
| 2017/02/01 08:44 | 2.65       | 173.33     | 2.64           |
| 2017/02/01 08:59 | 2.65       | 173.33     | 2.64           |
| 2017/02/01 09:14 | 2.65       | 173.33     | 2.64           |
| 2017/02/01 09:29 | 2.65       | 173.33     | 2.64           |
| 2017/02/01 09:44 | 2.46       | 146.81     | 2.50           |
| 2017/02/01 09:59 | 2.41       | 143.19     | 2.50           |
| 2017/02/01 10:14 | 2.46       | 150.56     | 2.56           |
| 2017/02/01 10:29 | 2.46       | 150.56     | 2.56           |
| 2017/02/01 10:44 | 2.46       | 146.81     | 2.50           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 10:59 | 2.46       | 146.81     | 2.50           |
| 2017/02/01 11:14 | 2.46       | 142.85     | 2.43           |
| 2017/02/01 11:29 | 2.46       | 142.15     | 2.42           |
| 2017/02/01 11:44 | 2.46       | 137.01     | 2.33           |
| 2017/02/01 11:59 | 2.46       | 137.01     | 2.33           |
| 2017/02/01 12:14 | 2.44       | 135.90     | 2.33           |
| 2017/02/01 12:29 | 2.44       | 133.68     | 2.29           |
| 2017/02/01 12:44 | 2.41       | 131.46     | 2.29           |
| 2017/02/01 12:59 | 2.44       | 135.90     | 2.33           |
| 2017/02/01 13:14 | 2.44       | 133.68     | 2.29           |
| 2017/02/01 13:29 | 2.44       | 131.94     | 2.26           |
| 2017/02/01 13:44 | 2.48       | 131.67     | 2.20           |
| 2017/02/01 13:59 | 2.48       | 131.11     | 2.19           |
| 2017/02/01 14:14 | 2.48       | 129.86     | 2.17           |
| 2017/02/01 14:29 | 2.48       | 124.31     | 2.08           |
| 2017/02/01 14:44 | 2.46       | 122.08     | 2.08           |
| 2017/02/01 14:59 | 2.46       | 122.08     | 2.08           |
| 2017/02/01 15:14 | 2.44       | 114.65     | 1.97           |
| 2017/02/01 15:29 | 2.43       | 110.42     | 1.91           |
| 2017/02/01 15:44 | 2.40       | 107.29     | 1.89           |
| 2017/02/01 15:59 | 2.33       | 92.85      | 1.70           |
| 2017/02/01 16:14 | 2.33       | 102.85     | 1.89           |
| 2017/02/01 16:29 | 2.33       | 102.85     | 1.89           |
| 2017/02/01 16:44 | 2.33       | 102.85     | 1.89           |
| 2017/02/01 16:59 | 2.34       | 103.75     | 1.89           |
| 2017/02/01 17:14 | 2.34       | 99.93      | 1.82           |
| 2017/02/01 17:29 | 2.34       | 99.93      | 1.82           |
| 2017/02/01 17:44 | 2.34       | 104.79     | 1.91           |
| 2017/02/01 17:59 | 2.34       | 104.79     | 1.91           |
| 2017/02/01 18:14 | 2.40       | 110.76     | 1.95           |
| 2017/02/01 18:29 | 2.40       | 108.40     | 1.91           |
| 2017/02/01 18:44 | 2.40       | 110.76     | 1.95           |
| 2017/02/01 18:59 | 2.40       | 130.42     | 2.29           |
| 2017/02/01 19:14 | 2.41       | 131.46     | 2.29           |
| 2017/02/01 19:29 | 2.41       | 128.26     | 2.24           |
| 2017/02/01 19:44 | 2.44       | 130.35     | 2.24           |
| 2017/02/01 19:59 | 2.44       | 132.15     | 2.27           |
| 2017/02/01 20:14 | 2.44       | 137.57     | 2.36           |
| 2017/02/01 20:29 | 2.44       | 135.90     | 2.33           |
| 2017/02/01 20:44 | 2.47       | 134.31     | 2.27           |
| 2017/02/01 20:59 | 2.47       | 134.31     | 2.27           |
| 2017/02/01 21:14 | 2.47       | 134.44     | 2.27           |
| 2017/02/01 21:29 | 2.47       | 138.12     | 2.33           |
| 2017/02/01 21:44 | 2.47       | 135.90     | 2.29           |
| 2017/02/01 21:59 | 2.46       | 133.33     | 2.27           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 22:14 | 2.44       | 127.71     | 2.19           |
| 2017/02/01 22:29 | 2.43       | 110.21     | 1.91           |
| 2017/02/01 22:44 | 2.37       | 106.60     | 1.91           |
| 2017/02/01 22:59 | 2.36       | 103.40     | 1.86           |
| 2017/02/01 23:14 | 2.34       | 100.56     | 1.83           |
| 2017/02/01 23:29 | 2.29       | 92.57      | 1.74           |
| 2017/02/01 23:44 | 2.29       | 91.04      | 1.71           |
| 2017/02/01 23:59 | 2.21       | 80.35      | 1.60           |
| 2017/02/02 00:14 | 2.19       | 77.85      | 1.56           |
| 2017/02/02 00:29 | 2.11       | 67.43      | 1.43           |
| 2017/02/02 00:44 | 2.03       | 62.01      | 1.39           |
| 2017/02/02 00:59 | 1.96       | 55.14      | 1.30           |
| 2017/02/02 01:14 | 1.96       | 48.96      | 1.16           |
| 2017/02/02 01:29 | 1.89       | 44.86      | 1.12           |
| 2017/02/02 01:44 | 1.82       | 42.15      | 1.11           |
| 2017/02/02 01:59 | 1.80       | 39.10      | 1.04           |
| 2017/02/02 02:14 | 1.80       | 37.85      | 1.01           |
| 2017/02/02 02:29 | 1.80       | 37.71      | 1.00           |
| 2017/02/02 02:44 | 1.80       | 37.71      | 1.00           |
| 2017/02/02 02:59 | 1.78       | 34.37      | 0.94           |
| 2017/02/02 03:14 | 1.78       | 35.28      | 0.96           |
| 2017/02/02 03:29 | 1.76       | 33.96      | 0.94           |
| 2017/02/02 03:44 | 1.76       | 32.99      | 0.91           |
| 2017/02/02 03:59 | 1.75       | 32.01      | 0.89           |
| 2017/02/02 04:14 | 1.75       | 32.01      | 0.89           |
| 2017/02/02 04:29 | 1.75       | 32.01      | 0.89           |
| 2017/02/02 04:44 | 1.75       | 32.01      | 0.89           |
| 2017/02/02 04:59 | 1.76       | 32.36      | 0.89           |
| 2017/02/02 05:14 | 1.82       | 33.89      | 0.89           |
| 2017/02/02 05:29 | 1.82       | 38.47      | 1.01           |
| 2017/02/02 05:44 | 1.87       | 42.29      | 1.07           |
| 2017/02/02 05:59 | 1.94       | 45.21      | 1.08           |
| 2017/02/02 06:14 | 1.97       | 48.61      | 1.14           |
| 2017/02/02 06:29 | 2.08       | 54.58      | 1.18           |
| 2017/02/02 06:44 | 2.09       | 60.21      | 1.29           |
| 2017/02/02 06:59 | 2.15       | 77.78      | 1.60           |
| 2017/02/02 07:14 | 2.19       | 82.43      | 1.65           |
| 2017/02/02 07:29 | 2.41       | 138.54     | 2.42           |
| 2017/02/02 07:44 | 2.50       | 149.58     | 2.48           |
| 2017/02/02 07:59 | 2.57       | 160.42     | 2.56           |
| 2017/02/02 08:14 | 2.62       | 166.11     | 2.57           |
| 2017/02/02 08:29 | 2.62       | 166.32     | 2.57           |
| 2017/02/02 08:44 | 2.64       | 173.61     | 2.67           |
| 2017/02/02 08:59 | 2.64       | 173.61     | 2.67           |
| 2017/02/02 09:14 | 2.68       | 177.64     | 2.67           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 09:29 | 2.64       | 171.67     | 2.64           |
| 2017/02/02 09:44 | 2.68       | 177.64     | 2.67           |
| 2017/02/02 09:59 | 2.64       | 173.61     | 2.67           |
| 2017/02/02 10:14 | 2.64       | 171.67     | 2.64           |
| 2017/02/02 10:29 | 2.64       | 171.67     | 2.64           |
| 2017/02/02 10:44 | 2.64       | 171.67     | 2.64           |
| 2017/02/02 10:59 | 2.51       | 159.79     | 2.63           |
| 2017/02/02 11:14 | 2.44       | 153.40     | 2.63           |
| 2017/02/02 11:29 | 2.44       | 144.44     | 2.48           |
| 2017/02/02 11:44 | 2.44       | 143.47     | 2.46           |
| 2017/02/02 11:59 | 2.44       | 143.47     | 2.46           |
| 2017/02/02 12:14 | 2.44       | 136.32     | 2.34           |
| 2017/02/02 12:29 | 2.44       | 130.14     | 2.23           |
| 2017/02/02 12:44 | 2.44       | 130.14     | 2.23           |
| 2017/02/02 12:59 | 2.43       | 129.03     | 2.23           |
| 2017/02/02 13:14 | 2.40       | 126.60     | 2.22           |
| 2017/02/02 13:29 | 2.43       | 129.03     | 2.23           |
| 2017/02/02 13:44 | 2.43       | 131.32     | 2.27           |
| 2017/02/02 13:59 | 2.43       | 131.32     | 2.27           |
| 2017/02/02 14:14 | 2.43       | 131.32     | 2.27           |
| 2017/02/02 14:29 | 2.43       | 125.35     | 2.17           |
| 2017/02/02 14:44 | 2.41       | 119.03     | 2.08           |
| 2017/02/02 14:59 | 2.41       | 119.03     | 2.08           |
| 2017/02/02 15:14 | 2.39       | 111.11     | 1.97           |
| 2017/02/02 15:29 | 2.37       | 109.10     | 1.95           |
| 2017/02/02 15:44 | 2.37       | 109.10     | 1.95           |
| 2017/02/02 15:59 | 2.37       | 109.10     | 1.95           |
| 2017/02/02 16:14 | 2.37       | 106.18     | 1.90           |
| 2017/02/02 16:29 | 2.36       | 105.28     | 1.90           |
| 2017/02/02 16:44 | 2.36       | 104.10     | 1.88           |
| 2017/02/02 16:59 | 2.36       | 102.78     | 1.85           |
| 2017/02/02 17:14 | 2.36       | 102.78     | 1.85           |
| 2017/02/02 17:29 | 2.36       | 102.78     | 1.85           |
| 2017/02/02 17:44 | 2.36       | 102.78     | 1.85           |
| 2017/02/02 17:59 | 2.36       | 102.78     | 1.85           |
| 2017/02/02 18:14 | 2.36       | 102.78     | 1.85           |
| 2017/02/02 18:29 | 2.43       | 109.17     | 1.89           |
| 2017/02/02 18:44 | 2.44       | 119.51     | 2.05           |
| 2017/02/02 18:59 | 2.44       | 129.65     | 2.22           |
| 2017/02/02 19:14 | 2.44       | 137.78     | 2.36           |
| 2017/02/02 19:29 | 2.44       | 139.72     | 2.40           |
| 2017/02/02 19:44 | 2.44       | 140.90     | 2.42           |
| 2017/02/02 19:59 | 2.44       | 146.39     | 2.51           |
| 2017/02/02 20:14 | 2.48       | 151.39     | 2.53           |
| 2017/02/02 20:29 | 2.50       | 153.82     | 2.55           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 20:44 | 2.50       | 153.82     | 2.55           |
| 2017/02/02 20:59 | 2.48       | 152.57     | 2.55           |
| 2017/02/02 21:14 | 2.48       | 152.57     | 2.55           |
| 2017/02/02 21:29 | 2.48       | 152.57     | 2.55           |
| 2017/02/02 21:44 | 2.47       | 147.15     | 2.48           |
| 2017/02/02 21:59 | 2.47       | 139.79     | 2.36           |
| 2017/02/02 22:14 | 2.46       | 132.22     | 2.25           |
| 2017/02/02 22:29 | 2.44       | 127.15     | 2.18           |
| 2017/02/02 22:44 | 2.44       | 123.33     | 2.11           |
| 2017/02/02 22:59 | 2.44       | 108.33     | 1.86           |
| 2017/02/02 23:14 | 2.39       | 102.08     | 1.81           |
| 2017/02/02 23:29 | 2.36       | 95.69      | 1.73           |
| 2017/02/02 23:44 | 2.33       | 94.10      | 1.73           |
| 2017/02/02 23:59 | 2.21       | 80.07      | 1.59           |
| 2017/02/03 00:14 | 2.18       | 76.32      | 1.54           |
| 2017/02/03 00:29 | 2.15       | 74.93      | 1.54           |
| 2017/02/03 00:44 | 2.15       | 74.93      | 1.54           |
| 2017/02/03 00:59 | 2.15       | 72.99      | 1.50           |
| 2017/02/03 01:14 | 2.14       | 71.04      | 1.48           |
| 2017/02/03 01:29 | 2.00       | 56.81      | 1.30           |
| 2017/02/03 01:44 | 1.97       | 51.53      | 1.21           |
| 2017/02/03 01:59 | 1.82       | 41.39      | 1.09           |
| 2017/02/03 02:14 | 1.79       | 40.49      | 1.09           |
| 2017/02/03 02:29 | 1.79       | 39.31      | 1.06           |
| 2017/02/03 02:44 | 1.79       | 38.26      | 1.03           |
| 2017/02/03 02:59 | 1.79       | 38.26      | 1.03           |
| 2017/02/03 03:14 | 1.79       | 38.26      | 1.03           |
| 2017/02/03 03:29 | 1.78       | 35.21      | 0.96           |
| 2017/02/03 03:44 | 1.78       | 33.96      | 0.93           |
| 2017/02/03 03:59 | 1.75       | 33.19      | 0.93           |
| 2017/02/03 04:14 | 1.75       | 34.44      | 0.96           |
| 2017/02/03 04:29 | 1.73       | 34.03      | 0.96           |
| 2017/02/03 04:44 | 1.73       | 34.03      | 0.96           |
| 2017/02/03 04:59 | 1.75       | 34.79      | 0.97           |
| 2017/02/03 05:14 | 1.76       | 36.94      | 1.02           |
| 2017/02/03 05:29 | 1.76       | 38.06      | 1.05           |
| 2017/02/03 05:44 | 1.78       | 38.89      | 1.06           |
| 2017/02/03 05:59 | 1.83       | 44.44      | 1.16           |
| 2017/02/03 06:14 | 1.97       | 55.56      | 1.30           |
| 2017/02/03 06:29 | 2.14       | 67.71      | 1.41           |
| 2017/02/03 06:44 | 2.14       | 73.89      | 1.54           |
| 2017/02/03 06:59 | 2.19       | 85.14      | 1.71           |
| 2017/02/03 07:14 | 2.29       | 97.64      | 1.84           |
| 2017/02/03 07:29 | 2.46       | 117.29     | 1.99           |
| 2017/02/03 07:44 | 2.48       | 124.58     | 2.08           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 07:59 | 2.61       | 168.06     | 2.62           |
| 2017/02/03 08:14 | 2.61       | 168.06     | 2.62           |
| 2017/02/03 08:29 | 2.64       | 170.83     | 2.62           |
| 2017/02/03 08:44 | 2.69       | 179.93     | 2.68           |
| 2017/02/03 08:59 | 2.76       | 190.42     | 2.73           |
| 2017/02/03 09:14 | 2.76       | 190.42     | 2.73           |
| 2017/02/03 09:29 | 2.64       | 173.75     | 2.67           |
| 2017/02/03 09:44 | 2.64       | 173.75     | 2.67           |
| 2017/02/03 09:59 | 2.65       | 175.07     | 2.67           |
| 2017/02/03 10:14 | 2.87       | 196.53     | 2.67           |
| 2017/02/03 10:29 | 2.87       | 193.47     | 2.63           |
| 2017/02/03 10:44 | 2.87       | 191.39     | 2.60           |
| 2017/02/03 10:59 | 2.91       | 163.33     | 2.17           |
| 2017/02/03 11:14 | 2.97       | 147.64     | 1.91           |
| 2017/02/03 11:29 | 2.97       | 146.60     | 1.90           |
| 2017/02/03 11:44 | 3.00       | 143.54     | 1.83           |
| 2017/02/03 11:59 | 3.00       | 139.58     | 1.78           |
| 2017/02/03 12:14 | 3.00       | 143.54     | 1.83           |
| 2017/02/03 12:29 | 3.00       | 143.54     | 1.83           |
| 2017/02/03 12:44 | 3.00       | 148.54     | 1.90           |
| 2017/02/03 12:59 | 3.00       | 164.10     | 2.10           |
| 2017/02/03 13:14 | 2.98       | 162.99     | 2.10           |
| 2017/02/03 13:29 | 2.93       | 158.68     | 2.10           |
| 2017/02/03 13:44 | 2.90       | 156.53     | 2.10           |
| 2017/02/03 13:59 | 2.93       | 140.42     | 1.85           |
| 2017/02/03 14:14 | 2.86       | 133.96     | 1.83           |
| 2017/02/03 14:29 | 2.86       | 131.18     | 1.79           |
| 2017/02/03 14:44 | 2.79       | 121.39     | 1.72           |
| 2017/02/03 14:59 | 2.79       | 121.39     | 1.72           |
| 2017/02/03 15:14 | 2.78       | 120.49     | 1.72           |
| 2017/02/03 15:29 | 2.79       | 121.25     | 1.72           |
| 2017/02/03 15:44 | 2.79       | 121.25     | 1.72           |
| 2017/02/03 15:59 | 2.82       | 121.32     | 1.69           |
| 2017/02/03 16:14 | 2.83       | 117.01     | 1.62           |
| 2017/02/03 16:29 | 2.83       | 122.22     | 1.69           |
| 2017/02/03 16:44 | 2.82       | 116.18     | 1.62           |
| 2017/02/03 16:59 | 2.83       | 117.01     | 1.62           |
| 2017/02/03 17:14 | 2.84       | 117.85     | 1.62           |
| 2017/02/03 17:29 | 2.82       | 108.75     | 1.52           |
| 2017/02/03 17:44 | 2.84       | 110.35     | 1.52           |
| 2017/02/03 17:59 | 2.84       | 107.78     | 1.48           |
| 2017/02/03 18:14 | 2.94       | 113.12     | 1.48           |
| 2017/02/03 18:29 | 2.96       | 113.89     | 1.48           |
| 2017/02/03 18:44 | 3.02       | 117.71     | 1.48           |
| 2017/02/03 18:59 | 3.16       | 119.17     | 1.41           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 19:14 | 3.18       | 112.78     | 1.32           |
| 2017/02/03 19:29 | 3.18       | 105.76     | 1.24           |
| 2017/02/03 19:44 | 3.19       | 106.39     | 1.24           |
| 2017/02/03 19:59 | 3.19       | 103.68     | 1.21           |
| 2017/02/03 20:14 | 3.26       | 106.87     | 1.21           |
| 2017/02/03 20:29 | 3.26       | 104.17     | 1.18           |
| 2017/02/03 20:44 | 3.26       | 96.53      | 1.09           |
| 2017/02/03 20:59 | 3.26       | 96.53      | 1.09           |
| 2017/02/03 21:14 | 3.26       | 96.53      | 1.09           |
| 2017/02/03 21:29 | 3.29       | 96.32      | 1.08           |
| 2017/02/03 21:44 | 3.29       | 96.32      | 1.08           |
| 2017/02/03 21:59 | 3.25       | 93.68      | 1.07           |
| 2017/02/03 22:14 | 3.19       | 91.11      | 1.06           |
| 2017/02/03 22:29 | 3.19       | 84.72      | 0.99           |
| 2017/02/03 22:44 | 3.19       | 84.72      | 0.99           |
| 2017/02/03 22:59 | 3.14       | 90.00      | 1.08           |
| 2017/02/03 23:14 | 3.14       | 93.19      | 1.12           |
| 2017/02/03 23:29 | 2.71       | 66.87      | 0.99           |
| 2017/02/03 23:44 | 2.71       | 79.86      | 1.18           |
| 2017/02/03 23:59 | 2.64       | 76.94      | 1.18           |
| 2017/02/04 00:14 | 2.64       | 76.94      | 1.18           |
| 2017/02/04 00:29 | 2.62       | 75.28      | 1.16           |
| 2017/02/04 00:44 | 2.64       | 60.21      | 0.92           |
| 2017/02/04 00:59 | 2.64       | 59.17      | 0.91           |
| 2017/02/04 01:14 | 2.62       | 58.68      | 0.91           |
| 2017/02/04 01:29 | 2.62       | 58.12      | 0.90           |
| 2017/02/04 01:44 | 2.37       | 46.11      | 0.82           |
| 2017/02/04 01:59 | 2.30       | 41.94      | 0.78           |
| 2017/02/04 02:14 | 2.30       | 40.90      | 0.76           |
| 2017/02/04 02:29 | 2.30       | 40.42      | 0.75           |
| 2017/02/04 02:44 | 2.30       | 40.42      | 0.75           |
| 2017/02/04 02:59 | 2.30       | 37.99      | 0.71           |
| 2017/02/04 03:14 | 2.22       | 38.26      | 0.75           |
| 2017/02/04 03:29 | 2.21       | 38.26      | 0.76           |
| 2017/02/04 03:44 | 2.21       | 38.40      | 0.76           |
| 2017/02/04 03:59 | 2.21       | 38.26      | 0.76           |
| 2017/02/04 04:14 | 2.16       | 37.50      | 0.77           |
| 2017/02/04 04:29 | 2.15       | 37.15      | 0.77           |
| 2017/02/04 04:44 | 2.15       | 37.15      | 0.77           |
| 2017/02/04 04:59 | 2.15       | 36.39      | 0.75           |
| 2017/02/04 05:14 | 2.15       | 34.44      | 0.71           |
| 2017/02/04 05:29 | 2.15       | 33.12      | 0.68           |
| 2017/02/04 05:44 | 2.15       | 33.12      | 0.68           |
| 2017/02/04 05:59 | 2.22       | 33.54      | 0.66           |
| 2017/02/04 06:14 | 2.25       | 35.35      | 0.68           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 06:29 | 2.29       | 37.71      | 0.71           |
| 2017/02/04 06:44 | 2.34       | 41.32      | 0.75           |
| 2017/02/04 06:59 | 2.50       | 45.90      | 0.76           |
| 2017/02/04 07:14 | 2.51       | 53.75      | 0.89           |
| 2017/02/04 07:29 | 2.64       | 58.75      | 0.90           |
| 2017/02/04 07:44 | 2.79       | 65.62      | 0.93           |
| 2017/02/04 07:59 | 2.86       | 86.11      | 1.18           |
| 2017/02/04 08:14 | 2.87       | 103.75     | 1.41           |
| 2017/02/04 08:29 | 2.87       | 103.75     | 1.41           |
| 2017/02/04 08:44 | 2.96       | 119.93     | 1.56           |
| 2017/02/04 08:59 | 2.96       | 134.93     | 1.76           |
| 2017/02/04 09:14 | 3.08       | 143.54     | 1.76           |
| 2017/02/04 09:29 | 3.15       | 160.76     | 1.91           |
| 2017/02/04 09:44 | 3.18       | 162.78     | 1.91           |
| 2017/02/04 09:59 | 3.18       | 172.64     | 2.03           |
| 2017/02/04 10:14 | 3.18       | 176.32     | 2.07           |
| 2017/02/04 10:29 | 3.26       | 179.17     | 2.03           |
| 2017/02/04 10:44 | 3.27       | 184.03     | 2.07           |
| 2017/02/04 10:59 | 3.32       | 188.33     | 2.08           |
| 2017/02/04 11:14 | 3.37       | 191.87     | 2.07           |
| 2017/02/04 11:29 | 3.37       | 191.87     | 2.07           |
| 2017/02/04 11:44 | 3.32       | 188.33     | 2.08           |
| 2017/02/04 11:59 | 3.32       | 180.76     | 2.00           |
| 2017/02/04 12:14 | 3.27       | 182.01     | 2.05           |
| 2017/02/04 12:29 | 3.15       | 167.92     | 2.00           |
| 2017/02/04 12:44 | 3.15       | 161.94     | 1.93           |
| 2017/02/04 12:59 | 3.14       | 166.87     | 2.00           |
| 2017/02/04 13:14 | 3.14       | 166.87     | 2.00           |
| 2017/02/04 13:29 | 3.08       | 162.57     | 2.00           |
| 2017/02/04 13:44 | 3.08       | 151.74     | 1.86           |
| 2017/02/04 13:59 | 3.07       | 150.76     | 1.86           |
| 2017/02/04 14:14 | 3.04       | 148.82     | 1.86           |
| 2017/02/04 14:29 | 2.93       | 141.11     | 1.86           |
| 2017/02/04 14:44 | 2.98       | 144.93     | 1.86           |
| 2017/02/04 14:59 | 2.94       | 127.08     | 1.67           |
| 2017/02/04 15:14 | 2.90       | 124.51     | 1.67           |
| 2017/02/04 15:29 | 2.94       | 131.25     | 1.72           |
| 2017/02/04 15:44 | 2.94       | 127.08     | 1.67           |
| 2017/02/04 15:59 | 2.96       | 132.15     | 1.72           |
| 2017/02/04 16:14 | 2.96       | 132.15     | 1.72           |
| 2017/02/04 16:29 | 2.94       | 131.25     | 1.72           |
| 2017/02/04 16:44 | 2.87       | 135.28     | 1.84           |
| 2017/02/04 16:59 | 2.96       | 140.90     | 1.84           |
| 2017/02/04 17:14 | 2.96       | 138.82     | 1.81           |
| 2017/02/04 17:29 | 2.87       | 133.26     | 1.81           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 17:44 | 2.87       | 133.26     | 1.81           |
| 2017/02/04 17:59 | 3.01       | 142.57     | 1.81           |
| 2017/02/04 18:14 | 3.01       | 142.57     | 1.81           |
| 2017/02/04 18:29 | 3.02       | 142.64     | 1.80           |
| 2017/02/04 18:44 | 3.01       | 141.74     | 1.80           |
| 2017/02/04 18:59 | 2.98       | 147.22     | 1.89           |
| 2017/02/04 19:14 | 2.98       | 147.92     | 1.90           |
| 2017/02/04 19:29 | 2.97       | 146.25     | 1.89           |
| 2017/02/04 19:44 | 2.91       | 142.99     | 1.90           |
| 2017/02/04 19:59 | 2.94       | 144.31     | 1.89           |
| 2017/02/04 20:14 | 2.91       | 142.29     | 1.89           |
| 2017/02/04 20:29 | 2.87       | 135.14     | 1.83           |
| 2017/02/04 20:44 | 2.86       | 116.87     | 1.60           |
| 2017/02/04 20:59 | 2.86       | 116.87     | 1.60           |
| 2017/02/04 21:14 | 2.84       | 115.35     | 1.59           |
| 2017/02/04 21:29 | 2.82       | 113.68     | 1.59           |
| 2017/02/04 21:44 | 2.82       | 113.68     | 1.59           |
| 2017/02/04 21:59 | 2.82       | 113.68     | 1.59           |
| 2017/02/04 22:14 | 2.84       | 121.94     | 1.68           |
| 2017/02/04 22:29 | 2.80       | 119.37     | 1.68           |
| 2017/02/04 22:44 | 2.76       | 107.22     | 1.54           |
| 2017/02/04 22:59 | 2.76       | 107.22     | 1.54           |
| 2017/02/04 23:14 | 2.75       | 100.62     | 1.46           |
| 2017/02/04 23:29 | 2.71       | 92.78      | 1.37           |
| 2017/02/04 23:44 | 2.68       | 88.54      | 1.33           |
| 2017/02/04 23:59 | 2.61       | 79.17      | 1.23           |
| 2017/02/05 00:14 | 2.61       | 78.40      | 1.22           |
| 2017/02/05 00:29 | 2.58       | 71.32      | 1.13           |
| 2017/02/05 00:44 | 2.54       | 69.03      | 1.12           |
| 2017/02/05 00:59 | 2.53       | 66.67      | 1.09           |
| 2017/02/05 01:14 | 2.47       | 62.36      | 1.05           |
| 2017/02/05 01:29 | 2.40       | 57.85      | 1.02           |
| 2017/02/05 01:44 | 2.40       | 57.15      | 1.00           |
| 2017/02/05 01:59 | 2.39       | 48.75      | 0.86           |
| 2017/02/05 02:14 | 2.32       | 45.42      | 0.84           |
| 2017/02/05 02:29 | 2.32       | 45.00      | 0.83           |
| 2017/02/05 02:44 | 2.32       | 45.00      | 0.83           |
| 2017/02/05 02:59 | 2.30       | 40.28      | 0.75           |
| 2017/02/05 03:14 | 2.30       | 39.51      | 0.74           |
| 2017/02/05 03:29 | 2.30       | 39.51      | 0.74           |
| 2017/02/05 03:44 | 2.30       | 40.28      | 0.75           |
| 2017/02/05 03:59 | 2.25       | 37.08      | 0.72           |
| 2017/02/05 04:14 | 2.25       | 38.06      | 0.74           |
| 2017/02/05 04:29 | 2.25       | 38.06      | 0.74           |
| 2017/02/05 04:44 | 2.25       | 38.06      | 0.74           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 04:59 | 2.25       | 38.06      | 0.74           |
| 2017/02/05 05:14 | 2.25       | 38.06      | 0.74           |
| 2017/02/05 05:29 | 2.25       | 38.06      | 0.74           |
| 2017/02/05 05:44 | 2.25       | 38.61      | 0.75           |
| 2017/02/05 05:59 | 2.32       | 40.35      | 0.75           |
| 2017/02/05 06:14 | 2.32       | 40.35      | 0.75           |
| 2017/02/05 06:29 | 2.33       | 40.69      | 0.75           |
| 2017/02/05 06:44 | 2.41       | 43.68      | 0.76           |
| 2017/02/05 06:59 | 2.41       | 43.68      | 0.76           |
| 2017/02/05 07:14 | 2.43       | 44.03      | 0.76           |
| 2017/02/05 07:29 | 2.47       | 48.06      | 0.81           |
| 2017/02/05 07:44 | 2.62       | 66.11      | 1.02           |
| 2017/02/05 07:59 | 2.65       | 72.29      | 1.10           |
| 2017/02/05 08:14 | 2.79       | 96.11      | 1.36           |
| 2017/02/05 08:29 | 2.80       | 98.75      | 1.39           |
| 2017/02/05 08:44 | 2.83       | 112.64     | 1.56           |
| 2017/02/05 08:59 | 2.86       | 129.72     | 1.77           |
| 2017/02/05 09:14 | 2.86       | 137.01     | 1.87           |
| 2017/02/05 09:29 | 3.11       | 158.26     | 1.92           |
| 2017/02/05 09:44 | 3.14       | 164.44     | 1.97           |
| 2017/02/05 09:59 | 3.18       | 167.57     | 1.97           |
| 2017/02/05 10:14 | 3.22       | 172.85     | 1.99           |
| 2017/02/05 10:29 | 3.22       | 170.76     | 1.97           |
| 2017/02/05 10:44 | 3.27       | 173.61     | 1.95           |
| 2017/02/05 10:59 | 3.39       | 182.01     | 1.95           |
| 2017/02/05 11:14 | 3.40       | 183.05     | 1.95           |
| 2017/02/05 11:29 | 3.40       | 180.62     | 1.93           |
| 2017/02/05 11:44 | 3.41       | 177.08     | 1.88           |
| 2017/02/05 11:59 | 3.48       | 165.97     | 1.71           |
| 2017/02/05 12:14 | 3.58       | 189.44     | 1.88           |
| 2017/02/05 12:29 | 3.58       | 166.39     | 1.65           |
| 2017/02/05 12:44 | 3.58       | 171.60     | 1.70           |
| 2017/02/05 12:59 | 3.58       | 171.60     | 1.70           |
| 2017/02/05 13:14 | 3.48       | 165.07     | 1.70           |
| 2017/02/05 13:29 | 3.46       | 183.68     | 1.92           |
| 2017/02/05 13:44 | 3.43       | 184.37     | 1.94           |
| 2017/02/05 13:59 | 3.43       | 181.60     | 1.92           |
| 2017/02/05 14:14 | 3.46       | 186.46     | 1.94           |
| 2017/02/05 14:29 | 3.55       | 195.90     | 1.96           |
| 2017/02/05 14:44 | 3.43       | 184.37     | 1.94           |
| 2017/02/05 14:59 | 3.44       | 182.64     | 1.92           |
| 2017/02/05 15:14 | 3.44       | 178.40     | 1.87           |
| 2017/02/05 15:29 | 3.44       | 167.78     | 1.76           |
| 2017/02/05 15:44 | 3.36       | 157.57     | 1.71           |
| 2017/02/05 15:59 | 3.33       | 145.14     | 1.59           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 16:14 | 3.27       | 135.35     | 1.52           |
| 2017/02/05 16:29 | 3.21       | 122.57     | 1.42           |
| 2017/02/05 16:44 | 3.16       | 118.40     | 1.40           |
| 2017/02/05 16:59 | 3.15       | 116.39     | 1.38           |
| 2017/02/05 17:14 | 3.15       | 90.07      | 1.07           |
| 2017/02/05 17:29 | 3.12       | 88.96      | 1.07           |
| 2017/02/05 17:44 | 3.12       | 88.96      | 1.07           |
| 2017/02/05 17:59 | 3.12       | 88.96      | 1.07           |
| 2017/02/05 18:14 | 3.11       | 88.40      | 1.07           |
| 2017/02/05 18:29 | 3.12       | 88.96      | 1.07           |
| 2017/02/05 18:44 | 3.18       | 91.18      | 1.07           |
| 2017/02/05 18:59 | 3.19       | 85.21      | 0.99           |
| 2017/02/05 19:14 | 3.39       | 92.71      | 0.99           |
| 2017/02/05 19:29 | 3.47       | 95.97      | 0.99           |
| 2017/02/05 19:44 | 3.69       | 94.31      | 0.90           |
| 2017/02/05 19:59 | 3.71       | 94.86      | 0.90           |
| 2017/02/05 20:14 | 3.77       | 97.36      | 0.90           |
| 2017/02/05 20:29 | 3.80       | 133.06     | 1.21           |
| 2017/02/05 20:44 | 3.80       | 133.06     | 1.21           |
| 2017/02/05 20:59 | 3.80       | 105.07     | 0.96           |
| 2017/02/05 21:14 | 3.80       | 105.07     | 0.96           |
| 2017/02/05 21:29 | 3.80       | 137.57     | 1.25           |
| 2017/02/05 21:44 | 3.80       | 137.57     | 1.25           |
| 2017/02/05 21:59 | 3.05       | 103.68     | 1.29           |
| 2017/02/05 22:14 | 2.97       | 126.04     | 1.63           |
| 2017/02/05 22:29 | 2.96       | 127.78     | 1.66           |
| 2017/02/05 22:44 | 2.86       | 121.81     | 1.66           |
| 2017/02/05 22:59 | 2.86       | 121.81     | 1.66           |
| 2017/02/05 23:14 | 2.86       | 121.81     | 1.66           |
| 2017/02/05 23:29 | 2.78       | 116.74     | 1.66           |
| 2017/02/05 23:44 | 2.75       | 98.82      | 1.43           |
| 2017/02/05 23:59 | 2.72       | 95.83      | 1.41           |
| 2017/02/06 00:14 | 2.66       | 83.68      | 1.26           |
| 2017/02/06 00:29 | 2.55       | 76.60      | 1.23           |
| 2017/02/06 00:44 | 2.51       | 71.11      | 1.17           |
| 2017/02/06 00:59 | 2.46       | 60.49      | 1.03           |
| 2017/02/06 01:14 | 2.37       | 55.28      | 0.99           |
| 2017/02/06 01:29 | 2.37       | 53.68      | 0.96           |
| 2017/02/06 01:44 | 2.36       | 53.26      | 0.96           |
| 2017/02/06 01:59 | 2.30       | 46.94      | 0.88           |
| 2017/02/06 02:14 | 2.28       | 45.90      | 0.87           |
| 2017/02/06 02:29 | 2.22       | 42.15      | 0.83           |
| 2017/02/06 02:44 | 2.12       | 38.40      | 0.81           |
| 2017/02/06 02:59 | 2.08       | 36.46      | 0.79           |
| 2017/02/06 03:14 | 2.07       | 36.11      | 0.79           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 03:29 | 2.07       | 36.11      | 0.79           |
| 2017/02/06 03:44 | 2.07       | 36.11      | 0.79           |
| 2017/02/06 03:59 | 2.07       | 36.94      | 0.81           |
| 2017/02/06 04:14 | 2.07       | 80.76      | 1.76           |
| 2017/02/06 04:29 | 2.19       | 87.71      | 1.76           |
| 2017/02/06 04:44 | 2.19       | 87.71      | 1.76           |
| 2017/02/06 04:59 | 2.22       | 62.85      | 1.24           |
| 2017/02/06 05:14 | 2.29       | 50.90      | 0.96           |
| 2017/02/06 05:29 | 2.32       | 66.87      | 1.24           |
| 2017/02/06 05:44 | 2.32       | 66.87      | 1.24           |
| 2017/02/06 05:59 | 2.36       | 68.61      | 1.24           |
| 2017/02/06 06:14 | 2.39       | 96.74      | 1.72           |
| 2017/02/06 06:29 | 2.39       | 102.01     | 1.81           |
| 2017/02/06 06:44 | 2.75       | 131.53     | 1.90           |
| 2017/02/06 06:59 | 3.01       | 158.40     | 2.01           |
| 2017/02/06 07:14 | 3.09       | 164.72     | 2.01           |
| 2017/02/06 07:29 | 3.12       | 166.87     | 2.01           |
| 2017/02/06 07:44 | 3.23       | 202.15     | 2.32           |
| 2017/02/06 07:59 | 3.26       | 253.96     | 2.87           |
| 2017/02/06 08:14 | 3.26       | 253.96     | 2.87           |
| 2017/02/06 08:29 | 3.26       | 253.96     | 2.87           |
| 2017/02/06 08:44 | 3.23       | 250.90     | 2.87           |
| 2017/02/06 08:59 | 3.22       | 244.17     | 2.82           |
| 2017/02/06 09:14 | 3.22       | 242.50     | 2.80           |
| 2017/02/06 09:29 | 3.22       | 238.89     | 2.75           |
| 2017/02/06 09:44 | 3.18       | 234.51     | 2.75           |
| 2017/02/06 09:59 | 3.18       | 231.11     | 2.71           |
| 2017/02/06 10:14 | 3.12       | 223.61     | 2.69           |
| 2017/02/06 10:29 | 3.18       | 228.40     | 2.68           |
| 2017/02/06 10:44 | 3.12       | 222.71     | 2.68           |
| 2017/02/06 10:59 | 3.12       | 190.90     | 2.30           |
| 2017/02/06 11:14 | 3.12       | 172.15     | 2.07           |
| 2017/02/06 11:29 | 3.12       | 172.15     | 2.07           |
| 2017/02/06 11:44 | 3.09       | 161.25     | 1.97           |
| 2017/02/06 11:59 | 3.05       | 143.40     | 1.78           |
| 2017/02/06 12:14 | 3.02       | 155.97     | 1.97           |
| 2017/02/06 12:29 | 3.01       | 154.93     | 1.97           |
| 2017/02/06 12:44 | 3.01       | 154.93     | 1.97           |
| 2017/02/06 12:59 | 3.01       | 142.71     | 1.81           |
| 2017/02/06 13:14 | 3.00       | 138.26     | 1.77           |
| 2017/02/06 13:29 | 2.96       | 135.56     | 1.77           |
| 2017/02/06 13:44 | 2.94       | 134.58     | 1.77           |
| 2017/02/06 13:59 | 2.94       | 133.19     | 1.75           |
| 2017/02/06 14:14 | 2.94       | 134.58     | 1.77           |
| 2017/02/06 14:29 | 2.94       | 137.99     | 1.81           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 14:44 | 2.94       | 133.19     | 1.75           |
| 2017/02/06 14:59 | 2.94       | 133.19     | 1.75           |
| 2017/02/06 15:14 | 2.94       | 127.29     | 1.67           |
| 2017/02/06 15:29 | 2.94       | 133.19     | 1.75           |
| 2017/02/06 15:44 | 2.89       | 123.96     | 1.67           |
| 2017/02/06 15:59 | 2.89       | 123.96     | 1.67           |
| 2017/02/06 16:14 | 2.89       | 123.96     | 1.67           |
| 2017/02/06 16:29 | 2.89       | 124.10     | 1.67           |
| 2017/02/06 16:44 | 2.89       | 124.10     | 1.67           |
| 2017/02/06 16:59 | 2.86       | 122.36     | 1.67           |
| 2017/02/06 17:14 | 2.86       | 122.36     | 1.67           |
| 2017/02/06 17:29 | 2.86       | 122.36     | 1.67           |
| 2017/02/06 17:44 | 2.83       | 116.46     | 1.61           |
| 2017/02/06 17:59 | 2.82       | 115.69     | 1.61           |
| 2017/02/06 18:14 | 2.82       | 115.69     | 1.61           |
| 2017/02/06 18:29 | 2.82       | 118.06     | 1.65           |
| 2017/02/06 18:44 | 2.82       | 127.71     | 1.78           |
| 2017/02/06 18:59 | 2.82       | 123.89     | 1.73           |
| 2017/02/06 19:14 | 2.96       | 136.81     | 1.78           |
| 2017/02/06 19:29 | 3.01       | 144.03     | 1.83           |
| 2017/02/06 19:44 | 3.01       | 140.49     | 1.78           |
| 2017/02/06 19:59 | 3.01       | 153.12     | 1.94           |
| 2017/02/06 20:14 | 3.05       | 156.18     | 1.94           |
| 2017/02/06 20:29 | 3.01       | 153.12     | 1.94           |
| 2017/02/06 20:44 | 3.01       | 153.12     | 1.94           |
| 2017/02/06 20:59 | 3.01       | 145.90     | 1.85           |
| 2017/02/06 21:14 | 2.98       | 137.71     | 1.77           |
| 2017/02/06 21:29 | 3.01       | 145.90     | 1.85           |
| 2017/02/06 21:44 | 3.02       | 146.87     | 1.85           |
| 2017/02/06 21:59 | 3.01       | 141.60     | 1.80           |
| 2017/02/06 22:14 | 2.90       | 132.22     | 1.77           |
| 2017/02/06 22:29 | 2.83       | 127.71     | 1.77           |
| 2017/02/06 22:44 | 2.78       | 117.29     | 1.67           |
| 2017/02/06 22:59 | 2.75       | 115.62     | 1.67           |
| 2017/02/06 23:14 | 2.73       | 114.58     | 1.67           |
| 2017/02/06 23:29 | 2.71       | 110.90     | 1.64           |
| 2017/02/06 23:44 | 2.71       | 95.21      | 1.41           |
| 2017/02/06 23:59 | 2.71       | 92.85      | 1.37           |
| 2017/02/07 00:14 | 2.65       | 77.08      | 1.17           |
| 2017/02/07 00:29 | 2.65       | 74.24      | 1.13           |
| 2017/02/07 00:44 | 2.65       | 64.58      | 0.98           |
| 2017/02/07 00:59 | 2.65       | 56.11      | 0.85           |
| 2017/02/07 01:14 | 2.65       | 54.31      | 0.83           |
| 2017/02/07 01:29 | 2.64       | 47.71      | 0.73           |
| 2017/02/07 01:44 | 2.62       | 45.21      | 0.70           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 01:59 | 2.62       | 43.82      | 0.68           |
| 2017/02/07 02:14 | 2.43       | 39.17      | 0.68           |
| 2017/02/07 02:29 | 2.29       | 35.97      | 0.68           |
| 2017/02/07 02:44 | 2.23       | 34.72      | 0.68           |
| 2017/02/07 02:59 | 2.21       | 33.82      | 0.67           |
| 2017/02/07 03:14 | 2.18       | 32.78      | 0.66           |
| 2017/02/07 03:29 | 2.16       | 33.68      | 0.69           |
| 2017/02/07 03:44 | 2.16       | 34.37      | 0.70           |
| 2017/02/07 03:59 | 2.16       | 34.37      | 0.70           |
| 2017/02/07 04:14 | 2.16       | 34.37      | 0.70           |
| 2017/02/07 04:29 | 2.18       | 34.72      | 0.70           |
| 2017/02/07 04:44 | 2.25       | 45.49      | 0.88           |
| 2017/02/07 04:59 | 2.34       | 48.33      | 0.88           |
| 2017/02/07 05:14 | 2.39       | 46.25      | 0.82           |
| 2017/02/07 05:29 | 2.43       | 47.43      | 0.82           |
| 2017/02/07 05:44 | 2.50       | 49.37      | 0.82           |
| 2017/02/07 05:59 | 2.65       | 50.00      | 0.76           |
| 2017/02/07 06:14 | 2.68       | 50.76      | 0.76           |
| 2017/02/07 06:29 | 2.93       | 57.64      | 0.76           |
| 2017/02/07 06:44 | 2.93       | 62.08      | 0.82           |
| 2017/02/07 06:59 | 2.93       | 72.92      | 0.96           |
| 2017/02/07 07:14 | 2.93       | 106.32     | 1.40           |
| 2017/02/07 07:29 | 2.93       | 106.32     | 1.40           |
| 2017/02/07 07:44 | 2.94       | 135.07     | 1.77           |
| 2017/02/07 07:59 | 3.19       | 151.81     | 1.77           |
| 2017/02/07 08:14 | 3.19       | 172.01     | 2.01           |
| 2017/02/07 08:29 | 3.19       | 172.01     | 2.01           |
| 2017/02/07 08:44 | 3.11       | 165.69     | 2.01           |
| 2017/02/07 08:59 | 3.11       | 172.99     | 2.10           |
| 2017/02/07 09:14 | 3.07       | 162.50     | 2.01           |
| 2017/02/07 09:29 | 3.07       | 160.62     | 1.99           |
| 2017/02/07 09:44 | 3.02       | 159.37     | 2.01           |
| 2017/02/07 09:59 | 3.02       | 157.57     | 1.99           |
| 2017/02/07 10:14 | 3.02       | 163.75     | 2.06           |
| 2017/02/07 10:29 | 3.00       | 155.49     | 1.99           |
| 2017/02/07 10:44 | 2.96       | 150.97     | 1.97           |
| 2017/02/07 10:59 | 2.90       | 142.15     | 1.90           |
| 2017/02/07 11:14 | 2.89       | 140.28     | 1.89           |
| 2017/02/07 11:29 | 2.89       | 120.14     | 1.62           |
| 2017/02/07 11:44 | 2.89       | 120.14     | 1.62           |
| 2017/02/07 11:59 | 2.84       | 117.64     | 1.62           |
| 2017/02/07 12:14 | 2.84       | 117.64     | 1.62           |
| 2017/02/07 12:29 | 2.84       | 119.51     | 1.64           |
| 2017/02/07 12:44 | 2.84       | 119.51     | 1.64           |
| 2017/02/07 12:59 | 2.84       | 119.51     | 1.64           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 13:14 | 2.84       | 120.00     | 1.65           |
| 2017/02/07 13:29 | 2.80       | 117.43     | 1.65           |
| 2017/02/07 13:44 | 2.80       | 117.43     | 1.65           |
| 2017/02/07 13:59 | 2.80       | 121.04     | 1.70           |
| 2017/02/07 14:14 | 2.78       | 115.76     | 1.65           |
| 2017/02/07 14:29 | 2.72       | 112.99     | 1.66           |
| 2017/02/07 14:44 | 2.72       | 120.97     | 1.78           |
| 2017/02/07 14:59 | 2.72       | 120.97     | 1.78           |
| 2017/02/07 15:14 | 2.61       | 106.39     | 1.66           |
| 2017/02/07 15:29 | 2.61       | 106.39     | 1.66           |
| 2017/02/07 15:44 | 2.61       | 106.39     | 1.66           |
| 2017/02/07 15:59 | 2.62       | 107.85     | 1.67           |
| 2017/02/07 16:14 | 2.62       | 107.85     | 1.67           |
| 2017/02/07 16:29 | 2.69       | 103.54     | 1.54           |
| 2017/02/07 16:44 | 2.69       | 111.94     | 1.67           |
| 2017/02/07 16:59 | 2.69       | 119.65     | 1.78           |
| 2017/02/07 17:14 | 2.72       | 113.61     | 1.67           |
| 2017/02/07 17:29 | 2.71       | 117.01     | 1.73           |
| 2017/02/07 17:44 | 2.72       | 117.85     | 1.73           |
| 2017/02/07 17:59 | 2.75       | 119.58     | 1.73           |
| 2017/02/07 18:14 | 2.78       | 127.78     | 1.82           |
| 2017/02/07 18:29 | 2.80       | 138.19     | 1.94           |
| 2017/02/07 18:44 | 2.80       | 138.19     | 1.94           |
| 2017/02/07 18:59 | 2.80       | 138.19     | 1.94           |
| 2017/02/07 19:14 | 2.82       | 145.49     | 2.03           |
| 2017/02/07 19:29 | 2.82       | 139.17     | 1.94           |
| 2017/02/07 19:44 | 2.83       | 140.14     | 1.94           |
| 2017/02/07 19:59 | 2.82       | 139.17     | 1.94           |
| 2017/02/07 20:14 | 2.82       | 143.96     | 2.01           |
| 2017/02/07 20:29 | 2.83       | 139.93     | 1.94           |
| 2017/02/07 20:44 | 2.83       | 145.00     | 2.01           |
| 2017/02/07 20:59 | 2.84       | 140.90     | 1.94           |
| 2017/02/07 21:14 | 2.89       | 143.89     | 1.94           |
| 2017/02/07 21:29 | 2.89       | 133.26     | 1.80           |
| 2017/02/07 21:44 | 2.89       | 133.26     | 1.80           |
| 2017/02/07 21:59 | 2.89       | 133.26     | 1.80           |
| 2017/02/07 22:14 | 2.84       | 130.49     | 1.80           |
| 2017/02/07 22:29 | 2.80       | 122.43     | 1.72           |
| 2017/02/07 22:44 | 2.75       | 116.74     | 1.69           |
| 2017/02/07 22:59 | 2.64       | 106.46     | 1.63           |
| 2017/02/07 23:14 | 2.64       | 103.68     | 1.59           |
| 2017/02/07 23:29 | 2.62       | 101.67     | 1.57           |
| 2017/02/07 23:44 | 2.61       | 100.14     | 1.56           |
| 2017/02/07 23:59 | 2.58       | 90.90      | 1.44           |
| 2017/02/08 00:14 | 2.57       | 88.40      | 1.41           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 00:29 | 2.47       | 79.58      | 1.34           |
| 2017/02/08 00:44 | 2.44       | 75.35      | 1.29           |
| 2017/02/08 00:59 | 2.36       | 67.57      | 1.22           |
| 2017/02/08 01:14 | 2.30       | 59.17      | 1.10           |
| 2017/02/08 01:29 | 2.23       | 52.01      | 1.01           |
| 2017/02/08 01:44 | 2.19       | 48.54      | 0.97           |
| 2017/02/08 01:59 | 2.15       | 44.44      | 0.92           |
| 2017/02/08 02:14 | 2.07       | 39.65      | 0.87           |
| 2017/02/08 02:29 | 2.04       | 38.82      | 0.87           |
| 2017/02/08 02:44 | 2.04       | 37.78      | 0.84           |
| 2017/02/08 02:59 | 2.04       | 37.71      | 0.84           |
| 2017/02/08 03:14 | 2.03       | 37.29      | 0.84           |
| 2017/02/08 03:29 | 2.01       | 36.87      | 0.84           |
| 2017/02/08 03:44 | 2.01       | 36.53      | 0.83           |
| 2017/02/08 03:59 | 2.01       | 35.00      | 0.80           |
| 2017/02/08 04:14 | 2.01       | 35.00      | 0.80           |
| 2017/02/08 04:29 | 2.11       | 37.50      | 0.80           |
| 2017/02/08 04:44 | 2.12       | 37.85      | 0.80           |
| 2017/02/08 04:59 | 2.14       | 38.61      | 0.80           |
| 2017/02/08 05:14 | 2.15       | 39.03      | 0.80           |
| 2017/02/08 05:29 | 2.25       | 45.90      | 0.89           |
| 2017/02/08 05:44 | 2.29       | 48.54      | 0.91           |
| 2017/02/08 05:59 | 2.50       | 55.56      | 0.92           |
| 2017/02/08 06:14 | 2.55       | 57.43      | 0.92           |
| 2017/02/08 06:29 | 2.58       | 58.33      | 0.92           |
| 2017/02/08 06:44 | 2.62       | 60.83      | 0.94           |
| 2017/02/08 06:59 | 2.80       | 68.26      | 0.96           |
| 2017/02/08 07:14 | 2.87       | 81.74      | 1.11           |
| 2017/02/08 07:29 | 2.89       | 149.10     | 2.01           |
| 2017/02/08 07:44 | 2.90       | 153.89     | 2.06           |
| 2017/02/08 07:59 | 2.96       | 185.42     | 2.42           |
| 2017/02/08 08:14 | 2.94       | 184.17     | 2.42           |
| 2017/02/08 08:29 | 2.90       | 180.49     | 2.42           |
| 2017/02/08 08:44 | 2.90       | 180.49     | 2.42           |
| 2017/02/08 08:59 | 2.94       | 184.17     | 2.42           |
| 2017/02/08 09:14 | 2.94       | 183.47     | 2.41           |
| 2017/02/08 09:29 | 2.93       | 168.26     | 2.22           |
| 2017/02/08 09:44 | 2.90       | 159.51     | 2.13           |
| 2017/02/08 09:59 | 2.90       | 159.24     | 2.13           |
| 2017/02/08 10:14 | 2.90       | 159.24     | 2.13           |
| 2017/02/08 10:29 | 2.93       | 161.46     | 2.13           |
| 2017/02/08 10:44 | 2.93       | 154.51     | 2.04           |
| 2017/02/08 10:59 | 2.89       | 126.94     | 1.71           |
| 2017/02/08 11:14 | 2.87       | 148.61     | 2.02           |
| 2017/02/08 11:29 | 2.93       | 142.50     | 1.88           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 11:44 | 2.93       | 151.53     | 2.00           |
| 2017/02/08 11:59 | 2.86       | 146.39     | 2.00           |
| 2017/02/08 12:14 | 2.86       | 139.44     | 1.91           |
| 2017/02/08 12:29 | 2.82       | 136.53     | 1.91           |
| 2017/02/08 12:44 | 2.83       | 137.50     | 1.91           |
| 2017/02/08 12:59 | 2.83       | 135.76     | 1.88           |
| 2017/02/08 13:14 | 2.83       | 127.15     | 1.76           |
| 2017/02/08 13:29 | 2.83       | 127.15     | 1.76           |
| 2017/02/08 13:44 | 2.83       | 112.64     | 1.56           |
| 2017/02/08 13:59 | 2.84       | 113.40     | 1.56           |
| 2017/02/08 14:14 | 2.84       | 113.40     | 1.56           |
| 2017/02/08 14:29 | 2.93       | 118.19     | 1.56           |
| 2017/02/08 14:44 | 2.84       | 141.81     | 1.95           |
| 2017/02/08 14:59 | 2.90       | 147.29     | 1.97           |
| 2017/02/08 15:14 | 2.90       | 145.83     | 1.95           |
| 2017/02/08 15:29 | 2.90       | 145.83     | 1.95           |
| 2017/02/08 15:44 | 2.90       | 123.89     | 1.66           |
| 2017/02/08 15:59 | 2.84       | 115.56     | 1.59           |
| 2017/02/08 16:14 | 2.84       | 117.85     | 1.62           |
| 2017/02/08 16:29 | 2.84       | 117.85     | 1.62           |
| 2017/02/08 16:44 | 2.84       | 117.85     | 1.62           |
| 2017/02/08 16:59 | 2.84       | 117.85     | 1.62           |
| 2017/02/08 17:14 | 2.84       | 120.56     | 1.66           |
| 2017/02/08 17:29 | 2.84       | 117.85     | 1.62           |
| 2017/02/08 17:44 | 2.83       | 121.46     | 1.68           |
| 2017/02/08 17:59 | 2.84       | 122.29     | 1.68           |
| 2017/02/08 18:14 | 2.84       | 120.76     | 1.66           |
| 2017/02/08 18:29 | 2.84       | 120.76     | 1.66           |
| 2017/02/08 18:44 | 2.82       | 120.56     | 1.68           |
| 2017/02/08 18:59 | 2.82       | 120.56     | 1.68           |
| 2017/02/08 19:14 | 2.83       | 121.53     | 1.68           |
| 2017/02/08 19:29 | 2.84       | 122.50     | 1.69           |
| 2017/02/08 19:44 | 2.84       | 122.71     | 1.69           |
| 2017/02/08 19:59 | 2.90       | 126.18     | 1.69           |
| 2017/02/08 20:14 | 2.91       | 137.01     | 1.82           |
| 2017/02/08 20:29 | 2.91       | 127.08     | 1.69           |
| 2017/02/08 20:44 | 2.91       | 126.74     | 1.68           |
| 2017/02/08 20:59 | 2.94       | 145.35     | 1.91           |
| 2017/02/08 21:14 | 2.91       | 140.62     | 1.87           |
| 2017/02/08 21:29 | 2.90       | 132.71     | 1.78           |
| 2017/02/08 21:44 | 2.89       | 138.68     | 1.87           |
| 2017/02/08 21:59 | 2.89       | 131.81     | 1.78           |
| 2017/02/08 22:14 | 2.86       | 130.00     | 1.78           |
| 2017/02/08 22:29 | 2.86       | 130.00     | 1.78           |
| 2017/02/08 22:44 | 2.83       | 116.81     | 1.62           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 22:59 | 2.78       | 113.54     | 1.62           |
| 2017/02/08 23:14 | 2.78       | 106.46     | 1.52           |
| 2017/02/08 23:29 | 2.73       | 103.75     | 1.51           |
| 2017/02/08 23:44 | 2.71       | 102.22     | 1.51           |
| 2017/02/08 23:59 | 2.69       | 101.53     | 1.51           |
| 2017/02/09 00:14 | 2.68       | 97.99      | 1.47           |
| 2017/02/09 00:29 | 2.64       | 94.65      | 1.45           |
| 2017/02/09 00:44 | 2.47       | 65.97      | 1.11           |
| 2017/02/09 00:59 | 2.47       | 65.97      | 1.11           |
| 2017/02/09 01:14 | 2.46       | 65.42      | 1.11           |
| 2017/02/09 01:29 | 2.33       | 58.89      | 1.08           |
| 2017/02/09 01:44 | 2.29       | 56.74      | 1.07           |
| 2017/02/09 01:59 | 2.18       | 45.90      | 0.93           |
| 2017/02/09 02:14 | 1.96       | 39.03      | 0.92           |
| 2017/02/09 02:29 | 1.96       | 37.85      | 0.90           |
| 2017/02/09 02:44 | 1.96       | 35.69      | 0.85           |
| 2017/02/09 02:59 | 1.96       | 33.89      | 0.80           |
| 2017/02/09 03:14 | 1.94       | 32.29      | 0.77           |
| 2017/02/09 03:29 | 1.96       | 30.90      | 0.73           |
| 2017/02/09 03:44 | 1.97       | 29.37      | 0.69           |
| 2017/02/09 03:59 | 1.98       | 28.61      | 0.66           |
| 2017/02/09 04:14 | 2.09       | 30.97      | 0.66           |
| 2017/02/09 04:29 | 2.12       | 31.04      | 0.65           |
| 2017/02/09 04:44 | 2.14       | 29.03      | 0.60           |
| 2017/02/09 04:59 | 2.16       | 29.58      | 0.60           |
| 2017/02/09 05:14 | 2.18       | 32.22      | 0.65           |
| 2017/02/09 05:29 | 2.22       | 34.58      | 0.68           |
| 2017/02/09 05:44 | 2.26       | 37.01      | 0.71           |
| 2017/02/09 05:59 | 2.30       | 40.56      | 0.76           |
| 2017/02/09 06:14 | 2.39       | 45.35      | 0.80           |
| 2017/02/09 06:29 | 2.46       | 53.47      | 0.91           |
| 2017/02/09 06:44 | 2.62       | 73.61      | 1.14           |
| 2017/02/09 06:59 | 2.66       | 92.85      | 1.40           |
| 2017/02/09 07:14 | 2.75       | 112.99     | 1.63           |
| 2017/02/09 07:29 | 3.11       | 138.75     | 1.68           |
| 2017/02/09 07:44 | 3.19       | 157.92     | 1.84           |
| 2017/02/09 07:59 | 3.23       | 180.55     | 2.07           |
| 2017/02/09 08:14 | 3.37       | 191.74     | 2.07           |
| 2017/02/09 08:29 | 3.37       | 188.75     | 2.04           |
| 2017/02/09 08:44 | 3.37       | 170.76     | 1.84           |
| 2017/02/09 08:59 | 3.43       | 187.22     | 1.97           |
| 2017/02/09 09:14 | 3.40       | 172.78     | 1.84           |
| 2017/02/09 09:29 | 3.43       | 167.57     | 1.77           |
| 2017/02/09 09:44 | 3.44       | 167.50     | 1.76           |
| 2017/02/09 09:59 | 3.44       | 152.92     | 1.60           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 10:14 | 3.50       | 157.64     | 1.62           |
| 2017/02/09 10:29 | 3.50       | 157.64     | 1.62           |
| 2017/02/09 10:44 | 3.50       | 157.64     | 1.62           |
| 2017/02/09 10:59 | 3.52       | 169.10     | 1.71           |
| 2017/02/09 11:14 | 3.52       | 159.44     | 1.62           |
| 2017/02/09 11:29 | 3.57       | 160.90     | 1.60           |
| 2017/02/09 11:44 | 3.57       | 162.08     | 1.62           |
| 2017/02/09 11:59 | 3.57       | 171.87     | 1.71           |
| 2017/02/09 12:14 | 3.58       | 174.37     | 1.73           |
| 2017/02/09 12:29 | 3.58       | 174.37     | 1.73           |
| 2017/02/09 12:44 | 3.57       | 148.96     | 1.48           |
| 2017/02/09 12:59 | 3.57       | 153.40     | 1.53           |
| 2017/02/09 13:14 | 3.51       | 150.00     | 1.53           |
| 2017/02/09 13:29 | 3.43       | 140.76     | 1.48           |
| 2017/02/09 13:44 | 3.36       | 130.28     | 1.41           |
| 2017/02/09 13:59 | 3.25       | 119.79     | 1.36           |
| 2017/02/09 14:14 | 3.25       | 119.79     | 1.36           |
| 2017/02/09 14:29 | 3.25       | 119.79     | 1.36           |
| 2017/02/09 14:44 | 3.25       | 118.54     | 1.35           |
| 2017/02/09 14:59 | 3.25       | 114.58     | 1.30           |
| 2017/02/09 15:14 | 3.25       | 114.58     | 1.30           |
| 2017/02/09 15:29 | 3.18       | 104.31     | 1.23           |
| 2017/02/09 15:44 | 3.26       | 108.26     | 1.23           |
| 2017/02/09 15:59 | 3.18       | 104.31     | 1.23           |
| 2017/02/09 16:14 | 3.14       | 110.56     | 1.32           |
| 2017/02/09 16:29 | 3.14       | 110.56     | 1.32           |
| 2017/02/09 16:44 | 3.18       | 112.64     | 1.32           |
| 2017/02/09 16:59 | 3.14       | 105.07     | 1.26           |
| 2017/02/09 17:14 | 3.14       | 110.56     | 1.32           |
| 2017/02/09 17:29 | 3.14       | 110.56     | 1.32           |
| 2017/02/09 17:44 | 3.15       | 105.69     | 1.26           |
| 2017/02/09 17:59 | 3.16       | 106.39     | 1.26           |
| 2017/02/09 18:14 | 3.18       | 117.43     | 1.38           |
| 2017/02/09 18:29 | 3.19       | 120.28     | 1.40           |
| 2017/02/09 18:44 | 3.29       | 143.26     | 1.60           |
| 2017/02/09 18:59 | 3.29       | 143.40     | 1.60           |
| 2017/02/09 19:14 | 3.29       | 144.10     | 1.61           |
| 2017/02/09 19:29 | 3.29       | 146.94     | 1.64           |
| 2017/02/09 19:44 | 3.26       | 145.21     | 1.64           |
| 2017/02/09 19:59 | 3.26       | 142.36     | 1.61           |
| 2017/02/09 20:14 | 3.26       | 142.36     | 1.61           |
| 2017/02/09 20:29 | 3.26       | 150.28     | 1.70           |
| 2017/02/09 20:44 | 3.48       | 165.49     | 1.71           |
| 2017/02/09 20:59 | 3.48       | 158.68     | 1.64           |
| 2017/02/09 21:14 | 3.41       | 132.08     | 1.40           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 21:29 | 3.44       | 156.04     | 1.64           |
| 2017/02/09 21:44 | 3.47       | 161.46     | 1.67           |
| 2017/02/09 21:59 | 3.44       | 159.65     | 1.67           |
| 2017/02/09 22:14 | 3.41       | 154.24     | 1.64           |
| 2017/02/09 22:29 | 3.32       | 132.43     | 1.46           |
| 2017/02/09 22:44 | 3.23       | 127.71     | 1.46           |
| 2017/02/09 22:59 | 3.23       | 137.85     | 1.58           |
| 2017/02/09 23:14 | 3.23       | 127.71     | 1.46           |
| 2017/02/09 23:29 | 3.21       | 105.07     | 1.22           |
| 2017/02/09 23:44 | 3.21       | 105.07     | 1.22           |
| 2017/02/09 23:59 | 3.09       | 89.65      | 1.09           |
| 2017/02/10 00:14 | 2.80       | 75.14      | 1.06           |
| 2017/02/10 00:29 | 2.79       | 73.96      | 1.05           |
| 2017/02/10 00:44 | 2.78       | 71.60      | 1.02           |
| 2017/02/10 00:59 | 2.58       | 63.68      | 1.01           |
| 2017/02/10 01:14 | 2.53       | 59.10      | 0.97           |
| 2017/02/10 01:29 | 2.53       | 56.39      | 0.92           |
| 2017/02/10 01:44 | 2.50       | 53.26      | 0.88           |
| 2017/02/10 01:59 | 2.34       | 48.61      | 0.88           |
| 2017/02/10 02:14 | 2.33       | 48.19      | 0.88           |
| 2017/02/10 02:29 | 2.33       | 45.00      | 0.83           |
| 2017/02/10 02:44 | 2.32       | 43.19      | 0.80           |
| 2017/02/10 02:59 | 2.28       | 42.08      | 0.80           |
| 2017/02/10 03:14 | 2.16       | 36.53      | 0.75           |
| 2017/02/10 03:29 | 2.09       | 34.86      | 0.75           |
| 2017/02/10 03:44 | 2.09       | 34.58      | 0.74           |
| 2017/02/10 03:59 | 2.09       | 34.51      | 0.74           |
| 2017/02/10 04:14 | 2.12       | 35.21      | 0.74           |
| 2017/02/10 04:29 | 2.16       | 36.53      | 0.75           |
| 2017/02/10 04:44 | 2.25       | 40.07      | 0.78           |
| 2017/02/10 04:59 | 2.26       | 42.15      | 0.81           |
| 2017/02/10 05:14 | 2.37       | 48.89      | 0.87           |
| 2017/02/10 05:29 | 2.40       | 51.39      | 0.90           |
| 2017/02/10 05:44 | 2.46       | 56.11      | 0.95           |
| 2017/02/10 05:59 | 2.51       | 54.86      | 0.90           |
| 2017/02/10 06:14 | 2.65       | 59.31      | 0.90           |
| 2017/02/10 06:29 | 2.73       | 63.54      | 0.93           |
| 2017/02/10 06:44 | 2.79       | 68.54      | 0.97           |
| 2017/02/10 06:59 | 2.87       | 76.60      | 1.04           |
| 2017/02/10 07:14 | 2.98       | 94.58      | 1.22           |
| 2017/02/10 07:29 | 3.29       | 126.18     | 1.41           |
| 2017/02/10 07:44 | 3.39       | 149.86     | 1.61           |
| 2017/02/10 07:59 | 3.43       | 173.75     | 1.83           |
| 2017/02/10 08:14 | 3.62       | 190.28     | 1.86           |
| 2017/02/10 08:29 | 3.71       | 197.08     | 1.86           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 08:44 | 3.72       | 197.50     | 1.86           |
| 2017/02/10 08:59 | 3.82       | 205.49     | 1.86           |
| 2017/02/10 09:14 | 3.82       | 208.33     | 1.89           |
| 2017/02/10 09:29 | 3.72       | 209.03     | 1.96           |
| 2017/02/10 09:44 | 3.72       | 238.89     | 2.24           |
| 2017/02/10 09:59 | 2.68       | 169.79     | 2.55           |
| 2017/02/10 10:14 | 2.65       | 167.22     | 2.55           |
| 2017/02/10 10:29 | 2.65       | 167.22     | 2.55           |
| 2017/02/10 10:44 | 2.58       | 161.18     | 2.55           |
| 2017/02/10 10:59 | 2.58       | 160.97     | 2.55           |
| 2017/02/10 11:14 | 2.58       | 155.83     | 2.47           |
| 2017/02/10 11:29 | 2.58       | 155.83     | 2.47           |
| 2017/02/10 11:44 | 2.58       | 153.68     | 2.43           |
| 2017/02/10 11:59 | 2.69       | 163.26     | 2.43           |
| 2017/02/10 12:14 | 2.69       | 159.24     | 2.37           |
| 2017/02/10 12:29 | 2.69       | 149.93     | 2.23           |
| 2017/02/10 12:44 | 2.73       | 153.26     | 2.23           |
| 2017/02/10 12:59 | 2.73       | 153.26     | 2.23           |
| 2017/02/10 13:14 | 2.73       | 145.97     | 2.13           |
| 2017/02/10 13:29 | 2.66       | 136.94     | 2.07           |
| 2017/02/10 13:44 | 2.66       | 136.74     | 2.07           |
| 2017/02/10 13:59 | 2.64       | 118.26     | 1.82           |
| 2017/02/10 14:14 | 2.59       | 113.33     | 1.78           |
| 2017/02/10 14:29 | 2.57       | 111.60     | 1.78           |
| 2017/02/10 14:44 | 2.58       | 114.72     | 1.82           |
| 2017/02/10 14:59 | 2.58       | 114.72     | 1.82           |
| 2017/02/10 15:14 | 2.58       | 113.26     | 1.79           |
| 2017/02/10 15:29 | 2.58       | 112.50     | 1.78           |
| 2017/02/10 15:44 | 2.58       | 113.26     | 1.79           |
| 2017/02/10 15:59 | 2.58       | 113.26     | 1.79           |
| 2017/02/10 16:14 | 2.59       | 114.17     | 1.79           |
| 2017/02/10 16:29 | 2.61       | 115.00     | 1.79           |
| 2017/02/10 16:44 | 2.61       | 117.85     | 1.84           |
| 2017/02/10 16:59 | 2.61       | 117.85     | 1.84           |
| 2017/02/10 17:14 | 2.61       | 117.85     | 1.84           |
| 2017/02/10 17:29 | 2.59       | 116.94     | 1.84           |
| 2017/02/10 17:44 | 2.59       | 121.81     | 1.91           |
| 2017/02/10 17:59 | 2.59       | 121.60     | 1.91           |
| 2017/02/10 18:14 | 2.57       | 119.72     | 1.91           |
| 2017/02/10 18:29 | 2.57       | 119.72     | 1.91           |
| 2017/02/10 18:44 | 2.57       | 121.11     | 1.93           |
| 2017/02/10 18:59 | 2.57       | 122.50     | 1.95           |
| 2017/02/10 19:14 | 2.57       | 126.04     | 2.01           |
| 2017/02/10 19:29 | 2.57       | 126.04     | 2.01           |
| 2017/02/10 19:44 | 2.55       | 125.07     | 2.01           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 19:59 | 2.55       | 125.07     | 2.01           |
| 2017/02/10 20:14 | 2.55       | 125.07     | 2.01           |
| 2017/02/10 20:29 | 2.55       | 125.14     | 2.01           |
| 2017/02/10 20:44 | 2.57       | 126.18     | 2.01           |
| 2017/02/10 20:59 | 2.59       | 125.76     | 1.98           |
| 2017/02/10 21:14 | 2.59       | 120.97     | 1.90           |
| 2017/02/10 21:29 | 2.59       | 120.97     | 1.90           |
| 2017/02/10 21:44 | 2.62       | 106.32     | 1.64           |
| 2017/02/10 21:59 | 2.59       | 114.72     | 1.80           |
| 2017/02/10 22:14 | 2.51       | 99.93      | 1.64           |
| 2017/02/10 22:29 | 2.43       | 95.14      | 1.64           |
| 2017/02/10 22:44 | 2.43       | 91.53      | 1.58           |
| 2017/02/10 22:59 | 2.43       | 91.53      | 1.58           |
| 2017/02/10 23:14 | 2.40       | 90.14      | 1.58           |
| 2017/02/10 23:29 | 2.39       | 89.37      | 1.58           |
| 2017/02/10 23:44 | 2.39       | 89.24      | 1.58           |
| 2017/02/10 23:59 | 2.39       | 89.24      | 1.58           |
| 2017/02/11 00:14 | 2.26       | 81.04      | 1.55           |
| 2017/02/11 00:29 | 2.22       | 71.94      | 1.42           |
| 2017/02/11 00:44 | 2.22       | 67.43      | 1.33           |
| 2017/02/11 00:59 | 2.21       | 66.32      | 1.32           |
| 2017/02/11 01:14 | 2.21       | 63.19      | 1.26           |
| 2017/02/11 01:29 | 2.15       | 58.26      | 1.20           |
| 2017/02/11 01:44 | 2.09       | 55.07      | 1.18           |
| 2017/02/11 01:59 | 2.07       | 45.49      | 0.99           |
| 2017/02/11 02:14 | 2.03       | 43.68      | 0.98           |
| 2017/02/11 02:29 | 2.03       | 43.68      | 0.98           |
| 2017/02/11 02:44 | 2.00       | 39.72      | 0.91           |
| 2017/02/11 02:59 | 2.00       | 39.31      | 0.90           |
| 2017/02/11 03:14 | 1.98       | 38.89      | 0.90           |
| 2017/02/11 03:29 | 1.98       | 38.33      | 0.89           |
| 2017/02/11 03:44 | 1.98       | 37.57      | 0.87           |
| 2017/02/11 03:59 | 1.97       | 37.22      | 0.87           |
| 2017/02/11 04:14 | 1.97       | 33.96      | 0.80           |
| 2017/02/11 04:29 | 2.00       | 33.12      | 0.76           |
| 2017/02/11 04:44 | 2.03       | 33.82      | 0.76           |
| 2017/02/11 04:59 | 2.15       | 36.87      | 0.76           |
| 2017/02/11 05:14 | 2.18       | 36.60      | 0.74           |
| 2017/02/11 05:29 | 2.21       | 34.79      | 0.69           |
| 2017/02/11 05:44 | 2.22       | 35.14      | 0.69           |
| 2017/02/11 05:59 | 2.25       | 35.62      | 0.69           |
| 2017/02/11 06:14 | 2.26       | 35.90      | 0.69           |
| 2017/02/11 06:29 | 2.34       | 37.85      | 0.69           |
| 2017/02/11 06:44 | 2.37       | 38.68      | 0.69           |
| 2017/02/11 06:59 | 2.39       | 49.86      | 0.88           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 07:14 | 2.39       | 51.67      | 0.92           |
| 2017/02/11 07:29 | 2.39       | 60.28      | 1.07           |
| 2017/02/11 07:44 | 2.40       | 95.49      | 1.68           |
| 2017/02/11 07:59 | 2.41       | 100.69     | 1.75           |
| 2017/02/11 08:14 | 2.41       | 100.69     | 1.75           |
| 2017/02/11 08:29 | 2.41       | 108.12     | 1.88           |
| 2017/02/11 08:44 | 2.46       | 110.83     | 1.88           |
| 2017/02/11 08:59 | 2.50       | 113.54     | 1.88           |
| 2017/02/11 09:14 | 2.58       | 125.42     | 1.99           |
| 2017/02/11 09:29 | 2.58       | 135.42     | 2.14           |
| 2017/02/11 09:44 | 2.58       | 147.99     | 2.34           |
| 2017/02/11 09:59 | 2.58       | 148.61     | 2.35           |
| 2017/02/11 10:14 | 2.57       | 147.71     | 2.36           |
| 2017/02/11 10:29 | 2.50       | 143.75     | 2.39           |
| 2017/02/11 10:44 | 2.57       | 158.68     | 2.53           |
| 2017/02/11 10:59 | 2.57       | 158.68     | 2.53           |
| 2017/02/11 11:14 | 2.61       | 162.43     | 2.53           |
| 2017/02/11 11:29 | 2.61       | 162.43     | 2.53           |
| 2017/02/11 11:44 | 2.62       | 160.42     | 2.48           |
| 2017/02/11 11:59 | 2.62       | 160.42     | 2.48           |
| 2017/02/11 12:14 | 2.62       | 157.50     | 2.44           |
| 2017/02/11 12:29 | 2.62       | 156.81     | 2.43           |
| 2017/02/11 12:44 | 2.61       | 155.14     | 2.42           |
| 2017/02/11 12:59 | 2.61       | 155.14     | 2.42           |
| 2017/02/11 13:14 | 2.61       | 153.75     | 2.40           |
| 2017/02/11 13:29 | 2.61       | 153.75     | 2.40           |
| 2017/02/11 13:44 | 2.58       | 149.72     | 2.37           |
| 2017/02/11 13:59 | 2.61       | 149.79     | 2.33           |
| 2017/02/11 14:14 | 2.61       | 138.40     | 2.16           |
| 2017/02/11 14:29 | 2.58       | 127.85     | 2.02           |
| 2017/02/11 14:44 | 2.58       | 123.12     | 1.95           |
| 2017/02/11 14:59 | 2.58       | 122.92     | 1.95           |
| 2017/02/11 15:14 | 2.53       | 115.76     | 1.89           |
| 2017/02/11 15:29 | 2.53       | 107.92     | 1.76           |
| 2017/02/11 15:44 | 2.51       | 107.01     | 1.76           |
| 2017/02/11 15:59 | 2.51       | 107.01     | 1.76           |
| 2017/02/11 16:14 | 2.53       | 109.10     | 1.78           |
| 2017/02/11 16:29 | 2.53       | 109.10     | 1.78           |
| 2017/02/11 16:44 | 2.53       | 109.10     | 1.78           |
| 2017/02/11 16:59 | 2.54       | 110.00     | 1.78           |
| 2017/02/11 17:14 | 2.57       | 116.11     | 1.85           |
| 2017/02/11 17:29 | 2.57       | 116.11     | 1.85           |
| 2017/02/11 17:44 | 2.58       | 121.25     | 1.92           |
| 2017/02/11 17:59 | 2.57       | 120.35     | 1.92           |
| 2017/02/11 18:14 | 2.58       | 121.25     | 1.92           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 18:29 | 2.58       | 124.37     | 1.97           |
| 2017/02/11 18:44 | 2.61       | 139.10     | 2.17           |
| 2017/02/11 18:59 | 2.61       | 139.10     | 2.17           |
| 2017/02/11 19:14 | 2.61       | 139.10     | 2.17           |
| 2017/02/11 19:29 | 2.61       | 129.31     | 2.02           |
| 2017/02/11 19:44 | 2.61       | 138.40     | 2.16           |
| 2017/02/11 19:59 | 2.61       | 129.31     | 2.02           |
| 2017/02/11 20:14 | 2.61       | 111.81     | 1.74           |
| 2017/02/11 20:29 | 2.50       | 97.43      | 1.62           |
| 2017/02/11 20:44 | 2.51       | 98.26      | 1.62           |
| 2017/02/11 20:59 | 2.51       | 98.26      | 1.62           |
| 2017/02/11 21:14 | 2.50       | 97.43      | 1.62           |
| 2017/02/11 21:29 | 2.40       | 92.01      | 1.62           |
| 2017/02/11 21:44 | 2.40       | 96.04      | 1.69           |
| 2017/02/11 21:59 | 2.37       | 94.37      | 1.69           |
| 2017/02/11 22:14 | 2.33       | 92.01      | 1.69           |
| 2017/02/11 22:29 | 2.33       | 92.01      | 1.69           |
| 2017/02/11 22:44 | 2.37       | 94.51      | 1.69           |
| 2017/02/11 22:59 | 2.37       | 94.37      | 1.69           |
| 2017/02/11 23:14 | 2.32       | 90.07      | 1.67           |
| 2017/02/11 23:29 | 2.32       | 86.25      | 1.60           |
| 2017/02/11 23:44 | 2.32       | 86.25      | 1.60           |
| 2017/02/11 23:59 | 2.26       | 80.21      | 1.54           |
| 2017/02/12 00:14 | 2.26       | 80.21      | 1.54           |
| 2017/02/12 00:29 | 2.25       | 71.25      | 1.38           |
| 2017/02/12 00:44 | 2.25       | 64.58      | 1.25           |
| 2017/02/12 00:59 | 2.21       | 60.56      | 1.20           |
| 2017/02/12 01:14 | 2.21       | 62.85      | 1.25           |
| 2017/02/12 01:29 | 2.21       | 62.85      | 1.25           |
| 2017/02/12 01:44 | 2.21       | 62.85      | 1.25           |
| 2017/02/12 01:59 | 2.18       | 60.07      | 1.22           |
| 2017/02/12 02:14 | 2.12       | 57.22      | 1.20           |
| 2017/02/12 02:29 | 2.11       | 56.32      | 1.19           |
| 2017/02/12 02:44 | 2.07       | 43.54      | 0.95           |
| 2017/02/12 02:59 | 2.03       | 42.29      | 0.95           |
| 2017/02/12 03:14 | 2.03       | 41.94      | 0.94           |
| 2017/02/12 03:29 | 2.03       | 41.53      | 0.93           |
| 2017/02/12 03:44 | 2.03       | 41.53      | 0.93           |
| 2017/02/12 03:59 | 2.03       | 38.54      | 0.87           |
| 2017/02/12 04:14 | 2.25       | 43.12      | 0.83           |
| 2017/02/12 04:29 | 2.28       | 37.01      | 0.70           |
| 2017/02/12 04:44 | 2.28       | 36.53      | 0.69           |
| 2017/02/12 04:59 | 2.28       | 34.24      | 0.65           |
| 2017/02/12 05:14 | 2.28       | 36.53      | 0.69           |
| 2017/02/12 05:29 | 2.28       | 36.53      | 0.69           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 05:44 | 2.28       | 36.53      | 0.69           |
| 2017/02/12 05:59 | 2.34       | 39.37      | 0.72           |
| 2017/02/12 06:14 | 2.39       | 46.32      | 0.82           |
| 2017/02/12 06:29 | 2.39       | 47.92      | 0.85           |
| 2017/02/12 06:44 | 2.39       | 48.12      | 0.85           |
| 2017/02/12 06:59 | 2.39       | 49.31      | 0.87           |
| 2017/02/12 07:14 | 2.44       | 74.72      | 1.28           |
| 2017/02/12 07:29 | 2.44       | 81.67      | 1.40           |
| 2017/02/12 07:44 | 2.44       | 93.68      | 1.61           |
| 2017/02/12 07:59 | 2.44       | 94.17      | 1.61           |
| 2017/02/12 08:14 | 2.47       | 100.42     | 1.69           |
| 2017/02/12 08:29 | 2.57       | 106.74     | 1.70           |
| 2017/02/12 08:44 | 2.57       | 107.22     | 1.71           |
| 2017/02/12 08:59 | 2.58       | 108.06     | 1.71           |
| 2017/02/12 09:14 | 2.59       | 119.17     | 1.87           |
| 2017/02/12 09:29 | 2.62       | 121.04     | 1.87           |
| 2017/02/12 09:44 | 2.69       | 125.69     | 1.87           |
| 2017/02/12 09:59 | 2.86       | 137.01     | 1.87           |
| 2017/02/12 10:14 | 2.86       | 135.97     | 1.86           |
| 2017/02/12 10:29 | 2.86       | 132.29     | 1.81           |
| 2017/02/12 10:44 | 2.87       | 136.94     | 1.86           |
| 2017/02/12 10:59 | 2.89       | 137.92     | 1.86           |
| 2017/02/12 11:14 | 2.90       | 149.44     | 2.00           |
| 2017/02/12 11:29 | 2.93       | 151.53     | 2.00           |
| 2017/02/12 11:44 | 2.93       | 157.08     | 2.07           |
| 2017/02/12 11:59 | 2.90       | 160.83     | 2.15           |
| 2017/02/12 12:14 | 2.97       | 166.39     | 2.15           |
| 2017/02/12 12:29 | 2.98       | 167.50     | 2.15           |
| 2017/02/12 12:44 | 3.01       | 148.68     | 1.89           |
| 2017/02/12 12:59 | 3.04       | 134.17     | 1.68           |
| 2017/02/12 13:14 | 3.07       | 152.64     | 1.89           |
| 2017/02/12 13:29 | 3.07       | 152.64     | 1.89           |
| 2017/02/12 13:44 | 3.07       | 152.64     | 1.89           |
| 2017/02/12 13:59 | 3.07       | 157.29     | 1.94           |
| 2017/02/12 14:14 | 3.07       | 157.29     | 1.94           |
| 2017/02/12 14:29 | 2.93       | 147.22     | 1.94           |
| 2017/02/12 14:44 | 2.93       | 147.22     | 1.94           |
| 2017/02/12 14:59 | 2.93       | 120.56     | 1.59           |
| 2017/02/12 15:14 | 2.93       | 108.96     | 1.44           |
| 2017/02/12 15:29 | 2.94       | 109.72     | 1.44           |
| 2017/02/12 15:44 | 2.96       | 110.49     | 1.44           |
| 2017/02/12 15:59 | 2.98       | 123.82     | 1.59           |
| 2017/02/12 16:14 | 3.14       | 132.99     | 1.59           |
| 2017/02/12 16:29 | 3.14       | 132.99     | 1.59           |
| 2017/02/12 16:44 | 3.15       | 135.62     | 1.61           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 16:59 | 3.19       | 138.19     | 1.61           |
| 2017/02/12 17:14 | 3.30       | 158.26     | 1.76           |
| 2017/02/12 17:29 | 3.30       | 142.22     | 1.58           |
| 2017/02/12 17:44 | 3.30       | 142.22     | 1.58           |
| 2017/02/12 17:59 | 3.29       | 141.32     | 1.58           |
| 2017/02/12 18:14 | 3.29       | 142.57     | 1.59           |
| 2017/02/12 18:29 | 3.29       | 142.57     | 1.59           |
| 2017/02/12 18:44 | 3.29       | 142.57     | 1.59           |
| 2017/02/12 18:59 | 3.29       | 141.32     | 1.58           |
| 2017/02/12 19:14 | 3.37       | 147.71     | 1.59           |
| 2017/02/12 19:29 | 3.37       | 139.93     | 1.51           |
| 2017/02/12 19:44 | 3.43       | 142.36     | 1.50           |
| 2017/02/12 19:59 | 3.43       | 135.14     | 1.43           |
| 2017/02/12 20:14 | 3.43       | 135.14     | 1.43           |
| 2017/02/12 20:29 | 3.36       | 132.57     | 1.44           |
| 2017/02/12 20:44 | 3.36       | 132.57     | 1.44           |
| 2017/02/12 20:59 | 3.32       | 127.99     | 1.41           |
| 2017/02/12 21:14 | 3.36       | 125.62     | 1.36           |
| 2017/02/12 21:29 | 3.36       | 130.28     | 1.41           |
| 2017/02/12 21:44 | 3.32       | 123.47     | 1.36           |
| 2017/02/12 21:59 | 3.48       | 132.36     | 1.36           |
| 2017/02/12 22:14 | 3.48       | 128.96     | 1.33           |
| 2017/02/12 22:29 | 3.32       | 120.28     | 1.33           |
| 2017/02/12 22:44 | 3.21       | 114.58     | 1.33           |
| 2017/02/12 22:59 | 3.12       | 110.35     | 1.33           |
| 2017/02/12 23:14 | 3.08       | 105.76     | 1.30           |
| 2017/02/12 23:29 | 3.08       | 103.26     | 1.27           |
| 2017/02/12 23:44 | 3.07       | 97.29      | 1.20           |
| 2017/02/12 23:59 | 2.82       | 75.62      | 1.06           |
| 2017/02/13 00:14 | 2.80       | 71.46      | 1.00           |
| 2017/02/13 00:29 | 2.66       | 66.32      | 1.00           |
| 2017/02/13 00:44 | 2.61       | 62.29      | 0.97           |
| 2017/02/13 00:59 | 2.59       | 60.14      | 0.94           |
| 2017/02/13 01:14 | 2.32       | 51.04      | 0.94           |
| 2017/02/13 01:29 | 2.23       | 44.65      | 0.87           |
| 2017/02/13 01:44 | 2.15       | 42.29      | 0.87           |
| 2017/02/13 01:59 | 2.08       | 40.28      | 0.87           |
| 2017/02/13 02:14 | 2.03       | 38.61      | 0.87           |
| 2017/02/13 02:29 | 2.00       | 37.57      | 0.86           |
| 2017/02/13 02:44 | 2.00       | 37.57      | 0.86           |
| 2017/02/13 02:59 | 2.00       | 38.33      | 0.88           |
| 2017/02/13 03:14 | 2.00       | 39.10      | 0.90           |
| 2017/02/13 03:29 | 2.00       | 38.33      | 0.88           |
| 2017/02/13 03:44 | 1.98       | 36.94      | 0.86           |
| 2017/02/13 03:59 | 1.98       | 37.92      | 0.88           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 04:14 | 2.00       | 38.33      | 0.88           |
| 2017/02/13 04:29 | 2.01       | 36.53      | 0.83           |
| 2017/02/13 04:44 | 2.00       | 36.18      | 0.83           |
| 2017/02/13 04:59 | 2.01       | 36.53      | 0.83           |
| 2017/02/13 05:14 | 2.03       | 35.69      | 0.80           |
| 2017/02/13 05:29 | 2.05       | 39.51      | 0.87           |
| 2017/02/13 05:44 | 2.12       | 41.46      | 0.87           |
| 2017/02/13 05:59 | 2.15       | 42.29      | 0.87           |
| 2017/02/13 06:14 | 2.22       | 44.31      | 0.87           |
| 2017/02/13 06:29 | 2.39       | 49.58      | 0.88           |
| 2017/02/13 06:44 | 2.39       | 55.62      | 0.99           |
| 2017/02/13 06:59 | 2.72       | 69.31      | 1.02           |
| 2017/02/13 07:14 | 3.02       | 92.36      | 1.16           |
| 2017/02/13 07:29 | 3.50       | 128.61     | 1.32           |
| 2017/02/13 07:44 | 3.55       | 143.40     | 1.44           |
| 2017/02/13 07:59 | 3.55       | 167.15     | 1.68           |
| 2017/02/13 08:14 | 3.55       | 175.69     | 1.76           |
| 2017/02/13 08:29 | 3.55       | 184.65     | 1.85           |
| 2017/02/13 08:44 | 3.37       | 171.46     | 1.85           |
| 2017/02/13 08:59 | 3.25       | 162.50     | 1.85           |
| 2017/02/13 09:14 | 3.23       | 182.29     | 2.09           |
| 2017/02/13 09:29 | 3.12       | 173.47     | 2.09           |
| 2017/02/13 09:44 | 3.12       | 177.36     | 2.14           |
| 2017/02/13 09:59 | 3.12       | 177.36     | 2.14           |
| 2017/02/13 10:14 | 3.12       | 177.36     | 2.14           |
| 2017/02/13 10:29 | 3.12       | 179.24     | 2.16           |
| 2017/02/13 10:44 | 2.97       | 168.06     | 2.17           |
| 2017/02/13 10:59 | 2.94       | 165.76     | 2.17           |
| 2017/02/13 11:14 | 2.91       | 163.54     | 2.17           |
| 2017/02/13 11:29 | 2.86       | 165.35     | 2.26           |
| 2017/02/13 11:44 | 2.86       | 159.10     | 2.17           |
| 2017/02/13 11:59 | 2.86       | 165.35     | 2.26           |
| 2017/02/13 12:14 | 2.86       | 130.56     | 1.78           |
| 2017/02/13 12:29 | 2.84       | 129.58     | 1.78           |
| 2017/02/13 12:44 | 2.84       | 135.28     | 1.86           |
| 2017/02/13 12:59 | 2.82       | 133.40     | 1.86           |
| 2017/02/13 13:14 | 2.75       | 128.68     | 1.86           |
| 2017/02/13 13:29 | 2.79       | 136.53     | 1.93           |
| 2017/02/13 13:44 | 2.75       | 133.61     | 1.93           |
| 2017/02/13 13:59 | 2.72       | 131.67     | 1.93           |
| 2017/02/13 14:14 | 2.68       | 131.53     | 1.97           |
| 2017/02/13 14:29 | 2.68       | 131.53     | 1.97           |
| 2017/02/13 14:44 | 2.68       | 131.53     | 1.97           |
| 2017/02/13 14:59 | 2.61       | 126.46     | 1.97           |
| 2017/02/13 15:14 | 2.61       | 119.65     | 1.86           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 15:29 | 2.55       | 108.06     | 1.74           |
| 2017/02/13 15:44 | 2.61       | 111.53     | 1.74           |
| 2017/02/13 15:59 | 2.61       | 111.53     | 1.74           |
| 2017/02/13 16:14 | 2.55       | 108.06     | 1.74           |
| 2017/02/13 16:29 | 2.55       | 108.06     | 1.74           |
| 2017/02/13 16:44 | 2.55       | 110.90     | 1.78           |
| 2017/02/13 16:59 | 2.55       | 117.78     | 1.89           |
| 2017/02/13 17:14 | 2.55       | 117.78     | 1.89           |
| 2017/02/13 17:29 | 2.55       | 119.31     | 1.92           |
| 2017/02/13 17:44 | 2.55       | 117.78     | 1.89           |
| 2017/02/13 17:59 | 2.55       | 117.78     | 1.89           |
| 2017/02/13 18:14 | 2.55       | 117.78     | 1.89           |
| 2017/02/13 18:29 | 2.55       | 116.25     | 1.87           |
| 2017/02/13 18:44 | 2.55       | 116.25     | 1.87           |
| 2017/02/13 18:59 | 2.57       | 116.04     | 1.85           |
| 2017/02/13 19:14 | 2.69       | 122.71     | 1.83           |
| 2017/02/13 19:29 | 2.72       | 126.11     | 1.85           |
| 2017/02/13 19:44 | 2.80       | 133.33     | 1.87           |
| 2017/02/13 19:59 | 2.82       | 134.24     | 1.87           |
| 2017/02/13 20:14 | 2.82       | 156.46     | 2.18           |
| 2017/02/13 20:29 | 2.82       | 153.40     | 2.14           |
| 2017/02/13 20:44 | 2.84       | 155.90     | 2.15           |
| 2017/02/13 20:59 | 2.84       | 155.90     | 2.15           |
| 2017/02/13 21:14 | 2.82       | 153.68     | 2.15           |
| 2017/02/13 21:29 | 2.82       | 153.68     | 2.15           |
| 2017/02/13 21:44 | 2.82       | 153.40     | 2.14           |
| 2017/02/13 21:59 | 2.82       | 149.79     | 2.09           |
| 2017/02/13 22:14 | 2.82       | 137.01     | 1.91           |
| 2017/02/13 22:29 | 2.80       | 136.04     | 1.91           |
| 2017/02/13 22:44 | 2.80       | 136.04     | 1.91           |
| 2017/02/13 22:59 | 2.75       | 132.15     | 1.91           |
| 2017/02/13 23:14 | 2.54       | 110.90     | 1.80           |
| 2017/02/13 23:29 | 2.54       | 110.90     | 1.80           |
| 2017/02/13 23:44 | 2.34       | 86.94      | 1.58           |
| 2017/02/13 23:59 | 2.34       | 83.75      | 1.52           |
| 2017/02/14 00:14 | 2.28       | 78.12      | 1.48           |
| 2017/02/14 00:29 | 2.28       | 60.42      | 1.15           |
| 2017/02/14 00:44 | 2.28       | 58.89      | 1.12           |
| 2017/02/14 00:59 | 2.25       | 57.78      | 1.12           |
| 2017/02/14 01:14 | 2.25       | 57.78      | 1.12           |
| 2017/02/14 01:29 | 2.22       | 54.51      | 1.07           |
| 2017/02/14 01:44 | 2.19       | 50.83      | 1.02           |
| 2017/02/14 01:59 | 2.19       | 50.07      | 1.00           |
| 2017/02/14 02:14 | 2.07       | 45.97      | 1.00           |
| 2017/02/14 02:29 | 2.07       | 45.97      | 1.00           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 02:44 | 2.04       | 43.96      | 0.98           |
| 2017/02/14 02:59 | 2.04       | 43.33      | 0.96           |
| 2017/02/14 03:14 | 1.97       | 40.49      | 0.95           |
| 2017/02/14 03:29 | 1.97       | 39.58      | 0.93           |
| 2017/02/14 03:44 | 1.96       | 39.24      | 0.93           |
| 2017/02/14 03:59 | 1.90       | 35.28      | 0.87           |
| 2017/02/14 04:14 | 1.90       | 35.28      | 0.87           |
| 2017/02/14 04:29 | 1.90       | 35.28      | 0.87           |
| 2017/02/14 04:44 | 1.90       | 35.28      | 0.87           |
| 2017/02/14 04:59 | 1.96       | 36.74      | 0.87           |
| 2017/02/14 05:14 | 1.96       | 37.50      | 0.89           |
| 2017/02/14 05:29 | 2.03       | 39.51      | 0.89           |
| 2017/02/14 05:44 | 2.05       | 42.01      | 0.93           |
| 2017/02/14 05:59 | 2.12       | 47.64      | 1.00           |
| 2017/02/14 06:14 | 2.15       | 48.68      | 1.00           |
| 2017/02/14 06:29 | 2.21       | 50.97      | 1.01           |
| 2017/02/14 06:44 | 2.22       | 55.90      | 1.10           |
| 2017/02/14 06:59 | 2.44       | 89.03      | 1.53           |
| 2017/02/14 07:14 | 2.46       | 102.71     | 1.75           |
| 2017/02/14 07:29 | 2.62       | 125.35     | 1.94           |
| 2017/02/14 07:44 | 2.90       | 153.89     | 2.06           |
| 2017/02/14 07:59 | 3.04       | 164.58     | 2.06           |
| 2017/02/14 08:14 | 3.04       | 172.71     | 2.16           |
| 2017/02/14 08:29 | 3.04       | 164.58     | 2.06           |
| 2017/02/14 08:44 | 2.98       | 168.19     | 2.16           |
| 2017/02/14 08:59 | 3.04       | 172.71     | 2.16           |
| 2017/02/14 09:14 | 3.08       | 158.19     | 1.94           |
| 2017/02/14 09:29 | 3.08       | 148.12     | 1.82           |
| 2017/02/14 09:44 | 2.98       | 151.11     | 1.94           |
| 2017/02/14 09:59 | 2.93       | 147.08     | 1.94           |
| 2017/02/14 10:14 | 2.93       | 147.08     | 1.94           |
| 2017/02/14 10:29 | 2.86       | 133.12     | 1.82           |
| 2017/02/14 10:44 | 2.82       | 139.17     | 1.94           |
| 2017/02/14 10:59 | 2.79       | 128.47     | 1.82           |
| 2017/02/14 11:14 | 2.76       | 142.15     | 2.04           |
| 2017/02/14 11:29 | 2.75       | 139.44     | 2.02           |
| 2017/02/14 11:44 | 2.75       | 139.44     | 2.02           |
| 2017/02/14 11:59 | 2.71       | 136.39     | 2.02           |
| 2017/02/14 12:14 | 2.71       | 136.39     | 2.02           |
| 2017/02/14 12:29 | 2.64       | 131.39     | 2.02           |
| 2017/02/14 12:44 | 2.64       | 131.39     | 2.02           |
| 2017/02/14 12:59 | 2.64       | 131.39     | 2.02           |
| 2017/02/14 13:14 | 2.64       | 124.65     | 1.91           |
| 2017/02/14 13:29 | 2.61       | 120.21     | 1.87           |
| 2017/02/14 13:44 | 2.61       | 120.21     | 1.87           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 13:59 | 2.61       | 122.78     | 1.91           |
| 2017/02/14 14:14 | 2.61       | 120.21     | 1.87           |
| 2017/02/14 14:29 | 2.61       | 116.94     | 1.82           |
| 2017/02/14 14:44 | 2.54       | 112.50     | 1.82           |
| 2017/02/14 14:59 | 2.54       | 112.50     | 1.82           |
| 2017/02/14 15:14 | 2.53       | 111.60     | 1.82           |
| 2017/02/14 15:29 | 2.54       | 112.50     | 1.82           |
| 2017/02/14 15:44 | 2.54       | 112.50     | 1.82           |
| 2017/02/14 15:59 | 2.54       | 112.50     | 1.82           |
| 2017/02/14 16:14 | 2.54       | 117.43     | 1.90           |
| 2017/02/14 16:29 | 2.54       | 110.35     | 1.79           |
| 2017/02/14 16:44 | 2.53       | 109.51     | 1.79           |
| 2017/02/14 16:59 | 2.54       | 114.31     | 1.85           |
| 2017/02/14 17:14 | 2.54       | 120.35     | 1.95           |
| 2017/02/14 17:29 | 2.55       | 121.25     | 1.95           |
| 2017/02/14 17:44 | 2.55       | 121.25     | 1.95           |
| 2017/02/14 17:59 | 2.57       | 122.22     | 1.95           |
| 2017/02/14 18:14 | 2.57       | 123.12     | 1.96           |
| 2017/02/14 18:29 | 2.58       | 124.03     | 1.96           |
| 2017/02/14 18:44 | 2.59       | 128.89     | 2.02           |
| 2017/02/14 18:59 | 2.59       | 128.89     | 2.02           |
| 2017/02/14 19:14 | 2.58       | 126.67     | 2.01           |
| 2017/02/14 19:29 | 2.58       | 130.14     | 2.06           |
| 2017/02/14 19:44 | 2.58       | 130.14     | 2.06           |
| 2017/02/14 19:59 | 2.58       | 131.67     | 2.08           |
| 2017/02/14 20:14 | 2.59       | 127.64     | 2.01           |
| 2017/02/14 20:29 | 2.58       | 124.72     | 1.97           |
| 2017/02/14 20:44 | 2.59       | 125.69     | 1.97           |
| 2017/02/14 20:59 | 2.61       | 126.67     | 1.97           |
| 2017/02/14 21:14 | 2.62       | 127.64     | 1.97           |
| 2017/02/14 21:29 | 2.61       | 126.67     | 1.97           |
| 2017/02/14 21:44 | 2.61       | 126.67     | 1.97           |
| 2017/02/14 21:59 | 2.61       | 136.74     | 2.13           |
| 2017/02/14 22:14 | 2.61       | 136.74     | 2.13           |
| 2017/02/14 22:29 | 2.62       | 131.67     | 2.04           |
| 2017/02/14 22:44 | 2.55       | 126.67     | 2.04           |
| 2017/02/14 22:59 | 2.55       | 122.29     | 1.97           |
| 2017/02/14 23:14 | 2.54       | 113.26     | 1.84           |
| 2017/02/14 23:29 | 2.46       | 107.78     | 1.83           |
| 2017/02/14 23:44 | 2.44       | 95.14      | 1.63           |
| 2017/02/14 23:59 | 2.40       | 92.08      | 1.62           |
| 2017/02/15 00:14 | 2.28       | 85.14      | 1.62           |
| 2017/02/15 00:29 | 2.28       | 80.69      | 1.53           |
| 2017/02/15 00:44 | 2.25       | 73.96      | 1.43           |
| 2017/02/15 00:59 | 2.22       | 65.56      | 1.29           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 01:14 | 2.21       | 63.89      | 1.27           |
| 2017/02/15 01:29 | 2.04       | 44.31      | 0.99           |
| 2017/02/15 01:44 | 2.04       | 44.31      | 0.99           |
| 2017/02/15 01:59 | 2.04       | 43.96      | 0.98           |
| 2017/02/15 02:14 | 1.97       | 41.60      | 0.97           |
| 2017/02/15 02:29 | 1.97       | 41.60      | 0.97           |
| 2017/02/15 02:44 | 1.97       | 41.60      | 0.97           |
| 2017/02/15 02:59 | 1.94       | 39.10      | 0.94           |
| 2017/02/15 03:14 | 1.94       | 37.85      | 0.90           |
| 2017/02/15 03:29 | 1.94       | 36.53      | 0.87           |
| 2017/02/15 03:44 | 1.94       | 35.97      | 0.86           |
| 2017/02/15 03:59 | 1.94       | 35.97      | 0.86           |
| 2017/02/15 04:14 | 1.94       | 35.62      | 0.85           |
| 2017/02/15 04:29 | 1.94       | 32.78      | 0.78           |
| 2017/02/15 04:44 | 1.96       | 33.12      | 0.78           |
| 2017/02/15 04:59 | 2.00       | 34.17      | 0.78           |
| 2017/02/15 05:14 | 2.00       | 37.50      | 0.86           |
| 2017/02/15 05:29 | 2.11       | 43.54      | 0.92           |
| 2017/02/15 05:44 | 2.16       | 49.31      | 1.01           |
| 2017/02/15 05:59 | 2.16       | 54.24      | 1.11           |
| 2017/02/15 06:14 | 2.16       | 57.15      | 1.17           |
| 2017/02/15 06:29 | 2.19       | 59.72      | 1.20           |
| 2017/02/15 06:44 | 2.33       | 66.39      | 1.22           |
| 2017/02/15 06:59 | 2.41       | 79.24      | 1.38           |
| 2017/02/15 07:14 | 2.43       | 110.07     | 1.90           |
| 2017/02/15 07:29 | 2.55       | 133.12     | 2.14           |
| 2017/02/15 07:44 | 2.83       | 156.60     | 2.17           |
| 2017/02/15 07:59 | 2.94       | 173.26     | 2.27           |
| 2017/02/15 08:14 | 3.02       | 180.28     | 2.27           |
| 2017/02/15 08:29 | 3.02       | 183.68     | 2.31           |
| 2017/02/15 08:44 | 3.02       | 183.68     | 2.31           |
| 2017/02/15 08:59 | 2.98       | 181.87     | 2.34           |
| 2017/02/15 09:14 | 3.02       | 183.68     | 2.31           |
| 2017/02/15 09:29 | 2.98       | 155.49     | 2.00           |
| 2017/02/15 09:44 | 2.98       | 138.40     | 1.78           |
| 2017/02/15 09:59 | 2.93       | 151.39     | 2.00           |
| 2017/02/15 10:14 | 2.84       | 145.28     | 2.00           |
| 2017/02/15 10:29 | 2.93       | 161.81     | 2.14           |
| 2017/02/15 10:44 | 2.82       | 153.06     | 2.14           |
| 2017/02/15 10:59 | 2.78       | 149.79     | 2.14           |
| 2017/02/15 11:14 | 2.75       | 148.96     | 2.15           |
| 2017/02/15 11:29 | 2.72       | 147.85     | 2.17           |
| 2017/02/15 11:44 | 2.72       | 147.85     | 2.17           |
| 2017/02/15 11:59 | 2.72       | 147.85     | 2.17           |
| 2017/02/15 12:14 | 2.71       | 145.69     | 2.15           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 12:29 | 2.72       | 140.56     | 2.06           |
| 2017/02/15 12:44 | 2.71       | 123.61     | 1.83           |
| 2017/02/15 12:59 | 2.72       | 124.51     | 1.83           |
| 2017/02/15 13:14 | 2.71       | 118.75     | 1.76           |
| 2017/02/15 13:29 | 2.71       | 113.61     | 1.68           |
| 2017/02/15 13:44 | 2.73       | 120.56     | 1.76           |
| 2017/02/15 13:59 | 2.73       | 120.56     | 1.76           |
| 2017/02/15 14:14 | 2.68       | 120.49     | 1.81           |
| 2017/02/15 14:29 | 2.68       | 134.37     | 2.02           |
| 2017/02/15 14:44 | 2.68       | 141.94     | 2.13           |
| 2017/02/15 14:59 | 2.68       | 141.94     | 2.13           |
| 2017/02/15 15:14 | 2.65       | 139.79     | 2.13           |
| 2017/02/15 15:29 | 2.61       | 127.43     | 1.99           |
| 2017/02/15 15:44 | 2.57       | 124.51     | 1.99           |
| 2017/02/15 15:59 | 2.57       | 119.37     | 1.90           |
| 2017/02/15 16:14 | 2.55       | 116.74     | 1.88           |
| 2017/02/15 16:29 | 2.55       | 116.25     | 1.87           |
| 2017/02/15 16:44 | 2.55       | 115.76     | 1.86           |
| 2017/02/15 16:59 | 2.55       | 116.25     | 1.87           |
| 2017/02/15 17:14 | 2.61       | 119.93     | 1.87           |
| 2017/02/15 17:29 | 2.64       | 121.74     | 1.87           |
| 2017/02/15 17:44 | 2.64       | 121.74     | 1.87           |
| 2017/02/15 17:59 | 2.66       | 138.33     | 2.09           |
| 2017/02/15 18:14 | 2.69       | 140.42     | 2.09           |
| 2017/02/15 18:29 | 2.69       | 140.83     | 2.10           |
| 2017/02/15 18:44 | 2.71       | 141.46     | 2.09           |
| 2017/02/15 18:59 | 2.72       | 142.50     | 2.09           |
| 2017/02/15 19:14 | 2.76       | 145.35     | 2.09           |
| 2017/02/15 19:29 | 2.80       | 148.82     | 2.09           |
| 2017/02/15 19:44 | 2.80       | 148.47     | 2.09           |
| 2017/02/15 19:59 | 2.73       | 143.26     | 2.09           |
| 2017/02/15 20:14 | 2.83       | 125.49     | 1.74           |
| 2017/02/15 20:29 | 2.83       | 150.62     | 2.09           |
| 2017/02/15 20:44 | 2.82       | 148.82     | 2.08           |
| 2017/02/15 20:59 | 2.82       | 124.10     | 1.73           |
| 2017/02/15 21:14 | 2.73       | 118.82     | 1.73           |
| 2017/02/15 21:29 | 2.71       | 110.90     | 1.64           |
| 2017/02/15 21:44 | 2.82       | 148.82     | 2.08           |
| 2017/02/15 21:59 | 2.68       | 145.56     | 2.19           |
| 2017/02/15 22:14 | 2.68       | 138.33     | 2.08           |
| 2017/02/15 22:29 | 2.68       | 131.25     | 1.97           |
| 2017/02/15 22:44 | 2.62       | 129.79     | 2.01           |
| 2017/02/15 22:59 | 2.62       | 127.36     | 1.97           |
| 2017/02/15 23:14 | 2.59       | 125.42     | 1.97           |
| 2017/02/15 23:29 | 2.53       | 114.24     | 1.87           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 23:44 | 2.48       | 93.96      | 1.57           |
| 2017/02/15 23:59 | 2.23       | 79.24      | 1.55           |
| 2017/02/16 00:14 | 2.23       | 76.39      | 1.49           |
| 2017/02/16 00:29 | 2.22       | 73.54      | 1.45           |
| 2017/02/16 00:44 | 2.22       | 73.54      | 1.45           |
| 2017/02/16 00:59 | 2.21       | 65.28      | 1.30           |
| 2017/02/16 01:14 | 2.16       | 63.47      | 1.30           |
| 2017/02/16 01:29 | 2.16       | 63.26      | 1.29           |
| 2017/02/16 01:44 | 2.09       | 55.83      | 1.20           |
| 2017/02/16 01:59 | 2.09       | 53.06      | 1.14           |
| 2017/02/16 02:14 | 2.09       | 55.35      | 1.19           |
| 2017/02/16 02:29 | 2.08       | 54.86      | 1.19           |
| 2017/02/16 02:44 | 2.07       | 52.08      | 1.14           |
| 2017/02/16 02:59 | 2.07       | 54.10      | 1.18           |
| 2017/02/16 03:14 | 2.05       | 49.44      | 1.09           |
| 2017/02/16 03:29 | 2.04       | 53.06      | 1.18           |
| 2017/02/16 03:44 | 2.04       | 53.06      | 1.18           |
| 2017/02/16 03:59 | 2.04       | 53.06      | 1.18           |
| 2017/02/16 04:14 | 2.04       | 51.74      | 1.15           |
| 2017/02/16 04:29 | 2.04       | 52.43      | 1.17           |
| 2017/02/16 04:44 | 2.04       | 51.74      | 1.15           |
| 2017/02/16 04:59 | 2.04       | 51.74      | 1.15           |
| 2017/02/16 05:14 | 2.07       | 51.94      | 1.13           |
| 2017/02/16 05:29 | 2.08       | 53.26      | 1.15           |
| 2017/02/16 05:44 | 2.09       | 53.82      | 1.15           |
| 2017/02/16 05:59 | 2.09       | 54.51      | 1.17           |
| 2017/02/16 06:14 | 2.15       | 56.60      | 1.17           |
| 2017/02/16 06:29 | 2.18       | 67.36      | 1.36           |
| 2017/02/16 06:44 | 2.22       | 69.37      | 1.37           |
| 2017/02/16 06:59 | 2.29       | 92.99      | 1.75           |
| 2017/02/16 07:14 | 2.47       | 104.24     | 1.76           |
| 2017/02/16 07:29 | 2.64       | 115.28     | 1.77           |
| 2017/02/16 07:44 | 2.90       | 150.69     | 2.02           |
| 2017/02/16 07:59 | 2.98       | 156.94     | 2.02           |
| 2017/02/16 08:14 | 2.98       | 163.82     | 2.11           |
| 2017/02/16 08:29 | 3.02       | 170.97     | 2.15           |
| 2017/02/16 08:44 | 3.05       | 169.31     | 2.11           |
| 2017/02/16 08:59 | 3.05       | 169.31     | 2.11           |
| 2017/02/16 09:14 | 3.05       | 169.31     | 2.11           |
| 2017/02/16 09:29 | 3.02       | 170.97     | 2.15           |
| 2017/02/16 09:44 | 2.98       | 168.12     | 2.16           |
| 2017/02/16 09:59 | 2.98       | 171.53     | 2.20           |
| 2017/02/16 10:14 | 2.97       | 170.42     | 2.20           |
| 2017/02/16 10:29 | 2.97       | 170.49     | 2.21           |
| 2017/02/16 10:44 | 2.86       | 165.35     | 2.26           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 10:59 | 2.86       | 165.35     | 2.26           |
| 2017/02/16 11:14 | 2.86       | 165.35     | 2.26           |
| 2017/02/16 11:29 | 2.83       | 160.28     | 2.22           |
| 2017/02/16 11:44 | 2.83       | 118.33     | 1.64           |
| 2017/02/16 11:59 | 2.83       | 130.35     | 1.81           |
| 2017/02/16 12:14 | 2.82       | 129.44     | 1.81           |
| 2017/02/16 12:29 | 2.79       | 127.64     | 1.81           |
| 2017/02/16 12:44 | 2.79       | 141.53     | 2.00           |
| 2017/02/16 12:59 | 2.79       | 141.53     | 2.00           |
| 2017/02/16 13:14 | 2.78       | 140.49     | 2.00           |
| 2017/02/16 13:29 | 2.68       | 133.47     | 2.00           |
| 2017/02/16 13:44 | 2.68       | 133.47     | 2.00           |
| 2017/02/16 13:59 | 2.79       | 129.31     | 1.83           |
| 2017/02/16 14:14 | 2.65       | 120.21     | 1.83           |
| 2017/02/16 14:29 | 2.64       | 119.10     | 1.83           |
| 2017/02/16 14:44 | 2.58       | 101.11     | 1.60           |
| 2017/02/16 14:59 | 2.58       | 115.49     | 1.83           |
| 2017/02/16 15:14 | 2.57       | 114.79     | 1.83           |
| 2017/02/16 15:29 | 2.57       | 122.22     | 1.95           |
| 2017/02/16 15:44 | 2.57       | 122.22     | 1.95           |
| 2017/02/16 15:59 | 2.57       | 122.22     | 1.95           |
| 2017/02/16 16:14 | 2.57       | 122.22     | 1.95           |
| 2017/02/16 16:29 | 2.55       | 121.25     | 1.95           |
| 2017/02/16 16:44 | 2.55       | 121.25     | 1.95           |
| 2017/02/16 16:59 | 2.57       | 122.22     | 1.95           |
| 2017/02/16 17:14 | 2.61       | 128.82     | 2.01           |
| 2017/02/16 17:29 | 2.61       | 130.69     | 2.04           |
| 2017/02/16 17:44 | 2.61       | 130.69     | 2.04           |
| 2017/02/16 17:59 | 2.61       | 130.69     | 2.04           |
| 2017/02/16 18:14 | 2.65       | 135.49     | 2.06           |
| 2017/02/16 18:29 | 2.65       | 135.49     | 2.06           |
| 2017/02/16 18:44 | 2.65       | 135.49     | 2.06           |
| 2017/02/16 18:59 | 2.64       | 135.69     | 2.08           |
| 2017/02/16 19:14 | 2.62       | 134.65     | 2.08           |
| 2017/02/16 19:29 | 2.62       | 125.21     | 1.94           |
| 2017/02/16 19:44 | 2.62       | 126.94     | 1.96           |
| 2017/02/16 19:59 | 2.62       | 126.94     | 1.96           |
| 2017/02/16 20:14 | 2.58       | 124.03     | 1.96           |
| 2017/02/16 20:29 | 2.58       | 124.03     | 1.96           |
| 2017/02/16 20:44 | 2.51       | 119.24     | 1.96           |
| 2017/02/16 20:59 | 2.51       | 119.24     | 1.96           |
| 2017/02/16 21:14 | 2.51       | 119.65     | 1.97           |
| 2017/02/16 21:29 | 2.51       | 123.89     | 2.04           |
| 2017/02/16 21:44 | 2.51       | 119.65     | 1.97           |
| 2017/02/16 21:59 | 2.54       | 121.53     | 1.97           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 22:14 | 2.69       | 127.43     | 1.90           |
| 2017/02/16 22:29 | 2.69       | 127.43     | 1.90           |
| 2017/02/16 22:44 | 2.71       | 133.19     | 1.97           |
| 2017/02/16 22:59 | 2.71       | 133.61     | 1.98           |
| 2017/02/16 23:14 | 2.69       | 132.64     | 1.98           |
| 2017/02/16 23:29 | 2.66       | 130.69     | 1.98           |
| 2017/02/16 23:44 | 2.66       | 130.69     | 1.98           |
| 2017/02/16 23:59 | 2.53       | 120.97     | 1.98           |
| 2017/02/17 00:14 | 2.50       | 110.07     | 1.83           |
| 2017/02/17 00:29 | 2.46       | 99.79      | 1.70           |
| 2017/02/17 00:44 | 2.36       | 89.65      | 1.62           |
| 2017/02/17 00:59 | 2.26       | 74.86      | 1.43           |
| 2017/02/17 01:14 | 2.26       | 69.86      | 1.34           |
| 2017/02/17 01:29 | 2.26       | 60.35      | 1.16           |
| 2017/02/17 01:44 | 2.19       | 57.36      | 1.15           |
| 2017/02/17 01:59 | 2.19       | 51.74      | 1.04           |
| 2017/02/17 02:14 | 2.19       | 51.25      | 1.03           |
| 2017/02/17 02:29 | 2.16       | 50.83      | 1.04           |
| 2017/02/17 02:44 | 2.18       | 50.76      | 1.03           |
| 2017/02/17 02:59 | 2.19       | 51.25      | 1.03           |
| 2017/02/17 03:14 | 2.18       | 50.42      | 1.02           |
| 2017/02/17 03:29 | 2.18       | 48.89      | 0.99           |
| 2017/02/17 03:44 | 2.18       | 47.64      | 0.96           |
| 2017/02/17 03:59 | 2.18       | 47.01      | 0.95           |
| 2017/02/17 04:14 | 2.18       | 46.53      | 0.94           |
| 2017/02/17 04:29 | 2.18       | 46.67      | 0.94           |
| 2017/02/17 04:44 | 2.18       | 45.35      | 0.92           |
| 2017/02/17 04:59 | 2.18       | 46.67      | 0.94           |
| 2017/02/17 05:14 | 2.22       | 47.99      | 0.94           |
| 2017/02/17 05:29 | 2.26       | 49.58      | 0.95           |
| 2017/02/17 05:44 | 2.28       | 51.67      | 0.98           |
| 2017/02/17 05:59 | 2.32       | 55.97      | 1.04           |
| 2017/02/17 06:14 | 2.36       | 59.24      | 1.07           |
| 2017/02/17 06:29 | 2.39       | 66.94      | 1.19           |
| 2017/02/17 06:44 | 2.48       | 76.60      | 1.28           |
| 2017/02/17 06:59 | 2.57       | 83.19      | 1.33           |
| 2017/02/17 07:14 | 2.58       | 96.87      | 1.53           |
| 2017/02/17 07:29 | 2.71       | 115.14     | 1.70           |
| 2017/02/17 07:44 | 2.75       | 142.71     | 2.06           |
| 2017/02/17 07:59 | 2.78       | 144.79     | 2.06           |
| 2017/02/17 08:14 | 2.86       | 151.04     | 2.06           |
| 2017/02/17 08:29 | 2.86       | 153.61     | 2.10           |
| 2017/02/17 08:44 | 2.89       | 153.19     | 2.06           |
| 2017/02/17 08:59 | 2.91       | 155.28     | 2.06           |
| 2017/02/17 09:14 | 2.91       | 150.00     | 1.99           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/17 09:29 | 3.22       | 172.99     | 1.99           |
| 2017/02/17 09:44 | 3.22       | 172.99     | 1.99           |
| 2017/02/17 09:59 | 3.08       | 183.47     | 2.25           |
| 2017/02/17 10:14 | 3.08       | 186.46     | 2.29           |
| 2017/02/17 10:29 | 3.08       | 186.46     | 2.29           |
| 2017/02/17 10:44 | 3.02       | 179.58     | 2.26           |





## Site Report

02-16-2017

**Confidential Proprietary Information**

David Evans

~1737 Valley Park Av

2017.01-02 Site 3 Valley Park MH

Manhole No. 0603

## Access:

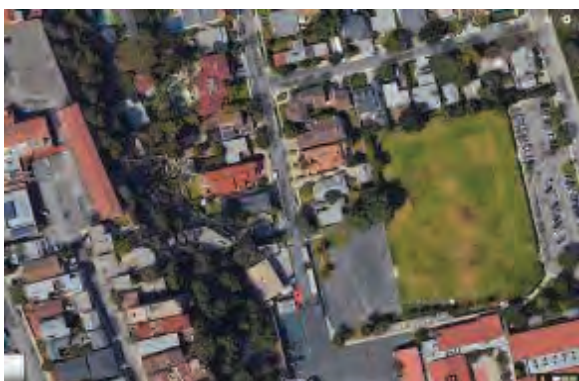
Manhole in parking area of school maintenance operations dept.

## System Type:

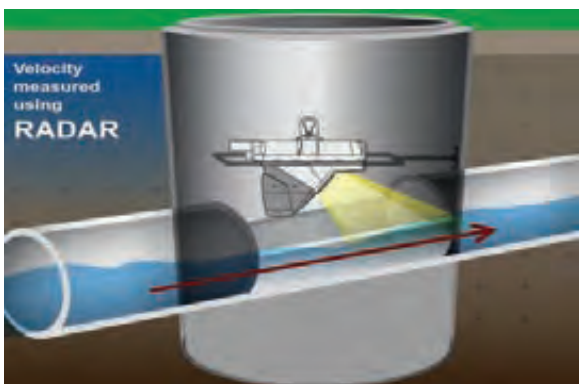
Sanitary ☒Storm ☐

Install Date: 1/18/2017

## Map



## Technology



## Sewer Plan



## Flow Meter

Meter Depth: 92"

Map Coordinates: 33.866591, -118.397812

Turbulent open channel hydraulics due to angle &amp; force of inflow from one of the upstream lines.

| Avg Velocity | Avg Measured Level | Multiplier |
|--------------|--------------------|------------|
| 2.5 fps      | 6.0"               | 1          |

## Gas

| O2   | H2S | CO | LEL |
|------|-----|----|-----|
| 20.9 | 0   | 0  | 0   |

## Notes

Could not locate MH 0602, so downstream MH was used, which had terrible hydraulics.

## Traffic Safety

No traffic near MH during installation or removal.

## Land Use

| Residential | Commercial | Industrial | Trunk |
|-------------|------------|------------|-------|
| X           | X          |            |       |

|                          |            |
|--------------------------|------------|
| Manhole Depth            | 115"       |
| Monitored Pipe Size      | 15"        |
| Inner Pipe Size (In/Out) | 15"/15"    |
| Pipe Shape               | Round      |
| Pipe Condition           | Fair       |
| Manhole Material         | Brick      |
| Silt                     | 0          |
| Velocity Profile Data    | *          |
| Velocity Profile Taken   | 0.4 2-D    |
| Sensor Offset            | 23.71"     |
| Sensor Dist. to Crown    | 8.71"      |
| Sensor Direction         | Downstream |
| Flow Heading             | North      |



## Meter Site Document

David Evans

2017.01-02 Site 3 Valley Park MH

~1737 Valley Park Av

Site



Manhole Hydraulics



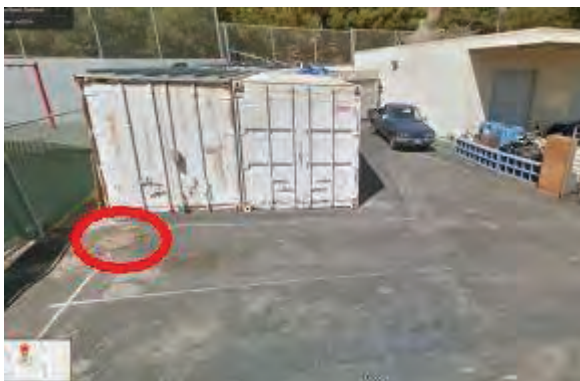
Installation Process



Installed



MH 0603



MH 0602 Not Located





Utility Systems Science and Software

Report Date: 02/20/2017  
Customer: David Evans  
Group: Hermosa Beach  
SiteID: 2636

### Statistics for 2017.01-02 Site 3 Valley Park MH: 01/19/2017 thru 02/16/2017

|              | Flow (GPM)    |                |               | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |              |             |                  |             |
|--------------|---------------|----------------|---------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|--------------|-------------|------------------|-------------|
| Date         | Avg           | Max            | Min           | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max          | Min         | Total Gal        | Rain        |
| 1/19/17      | 649.46        | 865.41         | 240.62        | 0.94        | 1.25        | 0.35        | 3.36           | 3.76        | 2.63        | 5.64           | 6.79         | 3.34        | 935,226          | 0.76        |
| 1/20/17      | 632.28        | 1253.61        | 195.90        | 0.91        | 1.81        | 0.28        | 3.12           | 3.63        | 2.17        | 6.00           | 14.37        | 2.97        | 910,484          | 1.29        |
| 1/21/17      | 558.77        | 849.58         | 182.50        | 0.81        | 1.22        | 0.26        | 3.19           | 3.75        | 2.35        | 5.14           | 6.95         | 2.98        | 804,632          |             |
| 1/22/17      | 526.57        | 1139.44        | 225.28        | 0.76        | 1.64        | 0.32        | 2.46           | 3.63        | 0.66        | 7.27           | 17.41        | 3.18        | 758,255          | 3.72        |
| <b>Week:</b> | <b>591.77</b> | <b>1253.61</b> | <b>182.50</b> | <b>0.85</b> | <b>1.81</b> | <b>0.26</b> | <b>3.03</b>    | <b>3.76</b> | <b>0.66</b> | <b>6.01</b>    | <b>17.41</b> | <b>2.97</b> | <b>3,408,597</b> | <b>5.77</b> |
| 1/23/17      | 339.32        | 645.62         | 86.53         | 0.49        | 0.93        | 0.12        | 1.88           | 2.78        | 1.00        | 5.16           | 6.58         | 3.15        | 488,617          | 0.13        |
| 1/24/17      | 366.77        | 670.83         | 72.08         | 0.53        | 0.97        | 0.10        | 2.09           | 2.93        | 0.96        | 5.03           | 6.50         | 2.87        | 528,150          |             |
| 1/25/17      | 345.01        | 543.12         | 93.75         | 0.50        | 0.78        | 0.14        | 1.96           | 2.40        | 1.27        | 5.15           | 6.66         | 2.87        | 496,821          |             |
| 1/26/17      | 345.59        | 584.03         | 73.06         | 0.50        | 0.84        | 0.11        | 1.95           | 2.61        | 1.01        | 5.09           | 6.70         | 2.84        | 497,651          |             |
| 1/27/17      | 356.25        | 593.26         | 105.21        | 0.51        | 0.85        | 0.15        | 1.98           | 2.68        | 1.18        | 5.24           | 6.76         | 3.27        | 512,997          |             |
| 1/28/17      | 357.78        | 633.40         | 96.39         | 0.52        | 0.91        | 0.14        | 1.95           | 2.52        | 1.13        | 5.27           | 7.11         | 3.05        | 515,199          |             |
| 1/29/17      | 363.57        | 579.65         | 83.82         | 0.52        | 0.84        | 0.12        | 1.93           | 2.56        | 0.97        | 5.34           | 6.98         | 3.11        | 523,536          |             |
| <b>Week:</b> | <b>353.47</b> | <b>670.83</b>  | <b>72.08</b>  | <b>0.51</b> | <b>0.97</b> | <b>0.10</b> | <b>1.96</b>    | <b>2.93</b> | <b>0.96</b> | <b>5.18</b>    | <b>7.11</b>  | <b>2.84</b> | <b>3,562,972</b> | <b>0.13</b> |
| 1/30/17      | 364.30        | 666.04         | 84.44         | 0.52        | 0.96        | 0.12        | 2.02           | 2.77        | 1.13        | 5.16           | 6.94         | 2.90        | 524,589          |             |
| 1/31/17      | 348.43        | 627.57         | 106.04        | 0.50        | 0.90        | 0.15        | 1.95           | 2.68        | 1.05        | 5.20           | 6.86         | 3.08        | 501,738          |             |
| 2/1/17       | 367.64        | 615.41         | 125.28        | 0.53        | 0.89        | 0.18        | 2.05           | 2.55        | 1.56        | 5.25           | 7.04         | 3.05        | 529,400          |             |
| 2/2/17       | 373.13        | 623.33         | 83.47         | 0.54        | 0.90        | 0.12        | 2.01           | 2.64        | 0.92        | 5.29           | 6.98         | 3.07        | 537,301          |             |

|                | Flow (GPM)    |                |               | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |              |             |                   |             |
|----------------|---------------|----------------|---------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|--------------|-------------|-------------------|-------------|
| Date           | Avg           | Max            | Min           | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max          | Min         | Total Gal         | Rain        |
| 2/3/17         | 367.17        | 638.33         | 75.21         | 0.53        | 0.92        | 0.11        | 1.89           | 2.59        | 0.93        | 5.41           | 7.70         | 3.07        | 528,723           | 0.39        |
| 2/4/17         | 364.82        | 602.71         | 80.90         | 0.53        | 0.87        | 0.12        | 1.91           | 2.60        | 0.92        | 5.32           | 7.09         | 3.09        | 525,346           |             |
| 2/5/17         | 373.20        | 738.26         | 91.53         | 0.54        | 1.06        | 0.13        | 1.97           | 2.83        | 1.04        | 5.28           | 7.19         | 3.14        | 537,402           |             |
| <b>Week:</b>   | <b>365.53</b> | <b>738.26</b>  | <b>75.21</b>  | <b>0.53</b> | <b>1.06</b> | <b>0.11</b> | <b>1.97</b>    | <b>2.83</b> | <b>0.92</b> | <b>5.27</b>    | <b>7.70</b>  | <b>2.90</b> | <b>3,684,501</b>  | <b>0.39</b> |
| 2/6/17         | 459.15        | 876.59         | 103.40        | 0.66        | 1.26        | 0.15        | 2.12           | 2.79        | 1.21        | 6.05           | 9.58         | 3.16        | 661,181           | 1.43        |
| 2/7/17         | 463.20        | 744.58         | 172.92        | 0.67        | 1.07        | 0.25        | 2.41           | 3.31        | 1.74        | 5.56           | 7.58         | 3.54        | 667,011           | 0.64        |
| 2/8/17         | 481.71        | 798.96         | 146.53        | 0.69        | 1.15        | 0.21        | 2.62           | 3.25        | 1.61        | 5.27           | 6.87         | 3.08        | 693,667           | 0.07        |
| 2/9/17         | 513.46        | 802.91         | 143.82        | 0.74        | 1.16        | 0.21        | 2.77           | 3.31        | 1.70        | 5.33           | 6.80         | 3.16        | 739,387           |             |
| 2/10/17        | 500.12        | 813.19         | 105.97        | 0.72        | 1.17        | 0.15        | 2.68           | 3.33        | 1.28        | 5.32           | 6.87         | 3.05        | 720,167           | 0.33        |
| 2/11/17        | 490.96        | 779.86         | 137.92        | 0.71        | 1.12        | 0.20        | 2.67           | 3.26        | 1.59        | 5.27           | 7.01         | 3.09        | 706,976           | 0.01        |
| 2/12/17        | 492.86        | 780.28         | 154.31        | 0.71        | 1.12        | 0.22        | 2.65           | 3.33        | 1.73        | 5.32           | 6.95         | 3.23        | 709,715           |             |
| <b>Week:</b>   | <b>485.92</b> | <b>876.59</b>  | <b>103.40</b> | <b>0.70</b> | <b>1.26</b> | <b>0.15</b> | <b>2.56</b>    | <b>3.33</b> | <b>1.21</b> | <b>5.45</b>    | <b>9.58</b>  | <b>3.05</b> | <b>4,898,105</b>  | <b>2.48</b> |
| 2/13/17        | 504.06        | 775.28         | 162.43        | 0.73        | 1.12        | 0.23        | 2.72           | 3.34        | 1.96        | 5.33           | 6.69         | 3.07        | 725,851           |             |
| 2/14/17        | 481.60        | 772.57         | 161.25        | 0.69        | 1.11        | 0.23        | 2.65           | 3.27        | 1.95        | 5.28           | 6.90         | 3.11        | 693,510           |             |
| 2/15/17        | 509.14        | 766.87         | 146.67        | 0.73        | 1.11        | 0.21        | 2.78           | 3.32        | 1.71        | 5.26           | 6.82         | 2.91        | 733,161           |             |
| 2/16/17        | 484.02        | 732.78         | 116.25        | 0.70        | 1.06        | 0.17        | 2.61           | 3.16        | 1.46        | 5.29           | 6.93         | 2.97        | 696,996           |             |
| <b>Week:</b>   | <b>494.71</b> | <b>775.28</b>  | <b>116.25</b> | <b>0.71</b> | <b>1.12</b> | <b>0.17</b> | <b>2.69</b>    | <b>3.34</b> | <b>1.46</b> | <b>5.29</b>    | <b>6.93</b>  | <b>2.91</b> | <b>2,849,518</b>  |             |
| <b>Totals:</b> | <b>440.70</b> | <b>1253.61</b> | <b>72.08</b>  | <b>0.64</b> | <b>1.81</b> | <b>0.10</b> | <b>2.36</b>    | <b>3.76</b> | <b>0.66</b> | <b>5.40</b>    | <b>17.41</b> | <b>2.84</b> | <b>18,403,693</b> | <b>8.77</b> |



**Data for 2017.01-02 Site 3 Valley Park MH:  
1/18/2017 thru 2/17/2017**

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/18 11:57 | 6.02       | 644.23     | 3.11           |
| 2017/01/18 12:12 | 6.11       | 723.68     | 3.43           |
| 2017/01/18 12:27 | 6.02       | 749.65     | 3.62           |
| 2017/01/18 12:42 | 5.68       | 698.12     | 3.65           |
| 2017/01/18 12:57 | 5.80       | 530.35     | 2.70           |
| 2017/01/18 13:12 | 5.64       | 638.68     | 3.38           |
| 2017/01/18 13:27 | 5.80       | 664.23     | 3.38           |
| 2017/01/18 13:42 | 5.80       | 664.23     | 3.38           |
| 2017/01/18 13:57 | 5.80       | 664.23     | 3.38           |
| 2017/01/18 14:12 | 5.76       | 643.26     | 3.30           |
| 2017/01/18 14:27 | 5.76       | 643.26     | 3.30           |
| 2017/01/18 14:42 | 5.65       | 626.94     | 3.30           |
| 2017/01/18 14:57 | 5.68       | 630.76     | 3.30           |
| 2017/01/18 15:12 | 5.68       | 631.04     | 3.30           |
| 2017/01/18 15:27 | 5.59       | 659.72     | 3.52           |
| 2017/01/18 15:42 | 5.58       | 627.08     | 3.36           |
| 2017/01/18 15:57 | 5.52       | 648.68     | 3.52           |
| 2017/01/18 16:12 | 5.58       | 657.57     | 3.52           |
| 2017/01/18 16:27 | 5.59       | 639.44     | 3.42           |
| 2017/01/18 16:42 | 5.59       | 639.44     | 3.42           |
| 2017/01/18 16:57 | 5.52       | 628.75     | 3.42           |
| 2017/01/18 17:12 | 5.61       | 638.47     | 3.40           |
| 2017/01/18 17:27 | 5.62       | 640.62     | 3.40           |
| 2017/01/18 17:42 | 5.66       | 627.22     | 3.29           |
| 2017/01/18 17:57 | 5.70       | 602.36     | 3.13           |
| 2017/01/18 18:12 | 5.70       | 602.36     | 3.13           |
| 2017/01/18 18:27 | 5.75       | 636.46     | 3.28           |
| 2017/01/18 18:42 | 5.75       | 608.33     | 3.13           |
| 2017/01/18 18:57 | 5.79       | 614.23     | 3.13           |
| 2017/01/18 19:12 | 5.97       | 640.07     | 3.13           |
| 2017/01/18 19:27 | 6.00       | 673.82     | 3.28           |
| 2017/01/18 19:42 | 6.11       | 690.55     | 3.28           |
| 2017/01/18 19:57 | 6.32       | 779.79     | 3.54           |
| 2017/01/18 20:12 | 6.34       | 688.68     | 3.11           |
| 2017/01/18 20:27 | 6.34       | 694.10     | 3.13           |
| 2017/01/18 20:42 | 6.34       | 694.10     | 3.13           |
| 2017/01/18 20:57 | 6.34       | 784.30     | 3.54           |
| 2017/01/18 21:12 | 6.34       | 784.30     | 3.54           |
| 2017/01/18 21:27 | 6.25       | 783.33     | 3.61           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/18 21:42 | 6.25       | 783.33     | 3.61           |
| 2017/01/18 21:57 | 6.22       | 778.75     | 3.61           |
| 2017/01/18 22:12 | 6.12       | 762.57     | 3.61           |
| 2017/01/18 22:27 | 6.08       | 734.30     | 3.51           |
| 2017/01/18 22:42 | 5.86       | 697.43     | 3.50           |
| 2017/01/18 22:57 | 5.34       | 579.58     | 3.29           |
| 2017/01/18 23:12 | 5.27       | 566.18     | 3.27           |
| 2017/01/18 23:27 | 4.55       | 465.07     | 3.29           |
| 2017/01/18 23:42 | 4.54       | 460.48     | 3.27           |
| 2017/01/18 23:57 | 4.54       | 456.46     | 3.25           |
| 2017/01/19 00:12 | 4.41       | 439.10     | 3.25           |
| 2017/01/19 00:27 | 4.33       | 405.07     | 3.07           |
| 2017/01/19 00:42 | 4.21       | 378.82     | 3.00           |
| 2017/01/19 00:57 | 3.86       | 316.39     | 2.82           |
| 2017/01/19 01:12 | 3.69       | 294.58     | 2.80           |
| 2017/01/19 01:27 | 3.68       | 292.08     | 2.79           |
| 2017/01/19 01:42 | 3.52       | 265.00     | 2.69           |
| 2017/01/19 01:57 | 3.44       | 255.55     | 2.68           |
| 2017/01/19 02:12 | 3.34       | 243.26     | 2.66           |
| 2017/01/19 02:27 | 3.34       | 243.26     | 2.66           |
| 2017/01/19 02:42 | 3.34       | 240.62     | 2.63           |
| 2017/01/19 02:57 | 3.34       | 240.62     | 2.63           |
| 2017/01/19 03:12 | 4.29       | 345.28     | 2.66           |
| 2017/01/19 03:27 | 4.33       | 373.89     | 2.84           |
| 2017/01/19 03:42 | 4.47       | 390.69     | 2.84           |
| 2017/01/19 03:57 | 4.47       | 398.89     | 2.90           |
| 2017/01/19 04:12 | 4.62       | 417.92     | 2.90           |
| 2017/01/19 04:27 | 4.62       | 426.46     | 2.96           |
| 2017/01/19 04:42 | 4.62       | 461.94     | 3.20           |
| 2017/01/19 04:57 | 4.82       | 490.35     | 3.21           |
| 2017/01/19 05:12 | 6.68       | 764.16     | 3.22           |
| 2017/01/19 05:27 | 6.68       | 865.07     | 3.65           |
| 2017/01/19 05:42 | 6.68       | 865.07     | 3.65           |
| 2017/01/19 05:57 | 6.68       | 865.07     | 3.65           |
| 2017/01/19 06:12 | 5.91       | 736.46     | 3.65           |
| 2017/01/19 06:27 | 5.14       | 516.46     | 3.10           |
| 2017/01/19 06:42 | 5.14       | 516.46     | 3.10           |
| 2017/01/19 06:57 | 5.14       | 516.46     | 3.10           |
| 2017/01/19 07:12 | 5.14       | 516.46     | 3.10           |
| 2017/01/19 07:27 | 5.48       | 625.97     | 3.43           |
| 2017/01/19 07:42 | 6.15       | 730.21     | 3.43           |
| 2017/01/19 07:57 | 6.70       | 818.47     | 3.43           |
| 2017/01/19 08:12 | 6.79       | 832.15     | 3.44           |
| 2017/01/19 08:27 | 6.79       | 831.80     | 3.43           |
| 2017/01/19 08:42 | 6.79       | 826.25     | 3.41           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 08:57 | 6.79       | 826.25     | 3.41           |
| 2017/01/19 09:12 | 6.79       | 826.25     | 3.41           |
| 2017/01/19 09:27 | 6.51       | 782.22     | 3.41           |
| 2017/01/19 09:42 | 6.45       | 773.47     | 3.41           |
| 2017/01/19 09:57 | 6.45       | 771.39     | 3.40           |
| 2017/01/19 10:12 | 6.45       | 696.66     | 3.07           |
| 2017/01/19 10:27 | 6.44       | 769.23     | 3.40           |
| 2017/01/19 10:42 | 6.33       | 745.00     | 3.37           |
| 2017/01/19 10:57 | 6.33       | 745.00     | 3.37           |
| 2017/01/19 11:12 | 6.29       | 745.21     | 3.40           |
| 2017/01/19 11:27 | 6.29       | 738.47     | 3.37           |
| 2017/01/19 11:42 | 6.26       | 792.98     | 3.64           |
| 2017/01/19 11:57 | 5.98       | 746.53     | 3.64           |
| 2017/01/19 12:12 | 5.98       | 741.46     | 3.62           |
| 2017/01/19 12:27 | 5.87       | 723.12     | 3.62           |
| 2017/01/19 12:42 | 5.86       | 687.08     | 3.45           |
| 2017/01/19 12:57 | 5.86       | 687.08     | 3.45           |
| 2017/01/19 13:12 | 5.86       | 687.08     | 3.45           |
| 2017/01/19 13:27 | 5.76       | 671.80     | 3.45           |
| 2017/01/19 13:42 | 5.76       | 693.19     | 3.56           |
| 2017/01/19 13:57 | 5.70       | 663.12     | 3.45           |
| 2017/01/19 14:12 | 5.70       | 684.23     | 3.56           |
| 2017/01/19 14:27 | 5.70       | 706.80     | 3.68           |
| 2017/01/19 14:42 | 5.70       | 722.64     | 3.76           |
| 2017/01/19 14:57 | 5.70       | 722.64     | 3.76           |
| 2017/01/19 15:12 | 5.70       | 722.64     | 3.76           |
| 2017/01/19 15:27 | 5.70       | 721.80     | 3.75           |
| 2017/01/19 15:42 | 5.70       | 721.80     | 3.75           |
| 2017/01/19 15:57 | 5.65       | 699.30     | 3.69           |
| 2017/01/19 16:12 | 5.65       | 680.76     | 3.59           |
| 2017/01/19 16:27 | 5.65       | 660.76     | 3.48           |
| 2017/01/19 16:42 | 5.65       | 660.76     | 3.48           |
| 2017/01/19 16:57 | 5.65       | 660.76     | 3.48           |
| 2017/01/19 17:12 | 5.77       | 680.55     | 3.48           |
| 2017/01/19 17:27 | 5.77       | 680.55     | 3.48           |
| 2017/01/19 17:42 | 5.77       | 662.98     | 3.39           |
| 2017/01/19 17:57 | 5.91       | 707.22     | 3.51           |
| 2017/01/19 18:12 | 5.94       | 720.34     | 3.55           |
| 2017/01/19 18:27 | 6.07       | 751.46     | 3.60           |
| 2017/01/19 18:42 | 6.12       | 760.69     | 3.60           |
| 2017/01/19 18:57 | 6.14       | 751.94     | 3.55           |
| 2017/01/19 19:12 | 6.23       | 719.93     | 3.33           |
| 2017/01/19 19:27 | 6.23       | 719.93     | 3.33           |
| 2017/01/19 19:42 | 6.27       | 726.32     | 3.33           |
| 2017/01/19 19:57 | 6.29       | 728.47     | 3.33           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 20:12 | 6.32       | 732.71     | 3.33           |
| 2017/01/19 20:27 | 6.39       | 743.40     | 3.33           |
| 2017/01/19 20:42 | 6.39       | 756.39     | 3.38           |
| 2017/01/19 20:57 | 6.32       | 767.01     | 3.48           |
| 2017/01/19 21:12 | 6.32       | 767.01     | 3.48           |
| 2017/01/19 21:27 | 6.32       | 809.72     | 3.68           |
| 2017/01/19 21:42 | 6.32       | 809.72     | 3.68           |
| 2017/01/19 21:57 | 6.47       | 844.72     | 3.72           |
| 2017/01/19 22:12 | 6.55       | 865.41     | 3.74           |
| 2017/01/19 22:27 | 6.55       | 865.41     | 3.74           |
| 2017/01/19 22:42 | 6.55       | 865.41     | 3.74           |
| 2017/01/19 22:57 | 6.55       | 865.41     | 3.74           |
| 2017/01/19 23:12 | 6.09       | 772.08     | 3.68           |
| 2017/01/19 23:27 | 5.58       | 624.79     | 3.35           |
| 2017/01/19 23:42 | 5.08       | 538.40     | 3.28           |
| 2017/01/19 23:57 | 4.79       | 486.67     | 3.21           |
| 2017/01/20 00:12 | 4.62       | 451.32     | 3.13           |
| 2017/01/20 00:27 | 4.14       | 380.48     | 3.08           |
| 2017/01/20 00:42 | 4.05       | 369.79     | 3.08           |
| 2017/01/20 00:57 | 3.96       | 348.05     | 3.00           |
| 2017/01/20 01:12 | 3.90       | 327.29     | 2.88           |
| 2017/01/20 01:27 | 3.61       | 288.47     | 2.83           |
| 2017/01/20 01:42 | 3.48       | 272.36     | 2.81           |
| 2017/01/20 01:57 | 3.40       | 259.72     | 2.77           |
| 2017/01/20 02:12 | 3.25       | 242.78     | 2.76           |
| 2017/01/20 02:27 | 3.14       | 230.76     | 2.76           |
| 2017/01/20 02:42 | 3.14       | 226.18     | 2.71           |
| 2017/01/20 02:57 | 3.01       | 207.29     | 2.63           |
| 2017/01/20 03:12 | 2.97       | 203.19     | 2.63           |
| 2017/01/20 03:27 | 2.97       | 195.90     | 2.53           |
| 2017/01/20 03:42 | 2.97       | 195.90     | 2.53           |
| 2017/01/20 03:57 | 3.01       | 207.29     | 2.63           |
| 2017/01/20 04:12 | 3.02       | 216.87     | 2.73           |
| 2017/01/20 04:27 | 3.76       | 298.47     | 2.76           |
| 2017/01/20 04:42 | 4.32       | 392.08     | 2.99           |
| 2017/01/20 04:57 | 4.89       | 465.42     | 2.99           |
| 2017/01/20 05:12 | 4.89       | 491.04     | 3.15           |
| 2017/01/20 05:27 | 4.89       | 465.42     | 2.99           |
| 2017/01/20 05:42 | 4.89       | 459.44     | 2.95           |
| 2017/01/20 05:57 | 4.47       | 406.25     | 2.95           |
| 2017/01/20 06:12 | 4.47       | 420.28     | 3.05           |
| 2017/01/20 06:27 | 4.47       | 420.28     | 3.05           |
| 2017/01/20 06:42 | 4.47       | 445.07     | 3.23           |
| 2017/01/20 06:57 | 5.25       | 524.17     | 3.05           |
| 2017/01/20 07:12 | 6.09       | 641.32     | 3.05           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 07:27 | 7.20       | 798.75     | 3.05           |
| 2017/01/20 07:42 | 7.93       | 1014.44    | 3.43           |
| 2017/01/20 07:57 | 7.93       | 1029.30    | 3.49           |
| 2017/01/20 08:12 | 7.93       | 959.02     | 3.25           |
| 2017/01/20 08:27 | 7.93       | 806.66     | 2.73           |
| 2017/01/20 08:42 | 7.52       | 897.91     | 3.25           |
| 2017/01/20 08:57 | 7.05       | 853.05     | 3.35           |
| 2017/01/20 09:12 | 7.05       | 853.05     | 3.35           |
| 2017/01/20 09:27 | 6.84       | 820.48     | 3.35           |
| 2017/01/20 09:42 | 6.84       | 820.48     | 3.35           |
| 2017/01/20 09:57 | 6.84       | 845.55     | 3.45           |
| 2017/01/20 10:12 | 7.05       | 879.09     | 3.45           |
| 2017/01/20 10:27 | 7.18       | 899.23     | 3.45           |
| 2017/01/20 10:42 | 7.18       | 899.23     | 3.45           |
| 2017/01/20 10:57 | 7.22       | 942.01     | 3.59           |
| 2017/01/20 11:12 | 7.22       | 905.97     | 3.45           |
| 2017/01/20 11:27 | 7.22       | 871.53     | 3.32           |
| 2017/01/20 11:42 | 8.15       | 941.32     | 3.08           |
| 2017/01/20 11:57 | 9.70       | 1160.76    | 3.08           |
| 2017/01/20 12:12 | 14.15      | 1253.61    | 2.33           |
| 2017/01/20 12:27 | 14.37      | 1179.58    | 2.17           |
| 2017/01/20 12:42 | 14.37      | 1179.58    | 2.17           |
| 2017/01/20 12:57 | 14.37      | 1179.58    | 2.17           |
| 2017/01/20 13:12 | 14.37      | 1179.58    | 2.17           |
| 2017/01/20 13:27 | 7.82       | 700.90     | 2.42           |
| 2017/01/20 13:42 | 7.15       | 762.36     | 2.94           |
| 2017/01/20 13:57 | 6.58       | 791.46     | 3.40           |
| 2017/01/20 14:12 | 6.47       | 773.96     | 3.40           |
| 2017/01/20 14:27 | 6.07       | 710.69     | 3.40           |
| 2017/01/20 14:42 | 5.98       | 697.71     | 3.40           |
| 2017/01/20 14:57 | 5.87       | 673.40     | 3.37           |
| 2017/01/20 15:12 | 5.86       | 660.35     | 3.31           |
| 2017/01/20 15:27 | 5.73       | 652.08     | 3.37           |
| 2017/01/20 15:42 | 5.73       | 652.08     | 3.37           |
| 2017/01/20 15:57 | 5.80       | 662.78     | 3.37           |
| 2017/01/20 16:12 | 5.73       | 647.08     | 3.34           |
| 2017/01/20 16:27 | 5.61       | 632.98     | 3.37           |
| 2017/01/20 16:42 | 5.73       | 658.33     | 3.40           |
| 2017/01/20 16:57 | 5.77       | 681.73     | 3.49           |
| 2017/01/20 17:12 | 5.80       | 686.18     | 3.49           |
| 2017/01/20 17:27 | 5.77       | 653.40     | 3.34           |
| 2017/01/20 17:42 | 5.77       | 631.32     | 3.23           |
| 2017/01/20 17:57 | 5.90       | 730.48     | 3.63           |
| 2017/01/20 18:12 | 5.93       | 706.66     | 3.49           |
| 2017/01/20 18:27 | 5.93       | 706.66     | 3.49           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 18:42 | 5.90       | 702.22     | 3.49           |
| 2017/01/20 18:57 | 5.90       | 702.22     | 3.49           |
| 2017/01/20 19:12 | 5.93       | 706.66     | 3.49           |
| 2017/01/20 19:27 | 5.90       | 712.08     | 3.54           |
| 2017/01/20 19:42 | 5.90       | 702.22     | 3.49           |
| 2017/01/20 19:57 | 5.90       | 693.33     | 3.45           |
| 2017/01/20 20:12 | 5.83       | 682.43     | 3.45           |
| 2017/01/20 20:27 | 5.83       | 641.60     | 3.24           |
| 2017/01/20 20:42 | 5.75       | 669.30     | 3.45           |
| 2017/01/20 20:57 | 5.69       | 660.62     | 3.45           |
| 2017/01/20 21:12 | 5.61       | 598.89     | 3.19           |
| 2017/01/20 21:27 | 5.54       | 588.89     | 3.19           |
| 2017/01/20 21:42 | 5.44       | 574.93     | 3.19           |
| 2017/01/20 21:57 | 5.26       | 549.16     | 3.19           |
| 2017/01/20 22:12 | 5.25       | 554.79     | 3.23           |
| 2017/01/20 22:27 | 5.14       | 531.46     | 3.19           |
| 2017/01/20 22:42 | 4.97       | 477.08     | 2.99           |
| 2017/01/20 22:57 | 4.80       | 478.89     | 3.15           |
| 2017/01/20 23:12 | 4.80       | 455.21     | 2.99           |
| 2017/01/20 23:27 | 4.80       | 448.26     | 2.95           |
| 2017/01/20 23:42 | 4.76       | 442.92     | 2.95           |
| 2017/01/20 23:57 | 4.66       | 430.48     | 2.95           |
| 2017/01/21 00:12 | 4.37       | 394.44     | 2.95           |
| 2017/01/21 00:27 | 4.33       | 389.17     | 2.95           |
| 2017/01/21 00:42 | 4.22       | 338.47     | 2.66           |
| 2017/01/21 00:57 | 3.98       | 312.29     | 2.66           |
| 2017/01/21 01:12 | 3.89       | 325.49     | 2.87           |
| 2017/01/21 01:27 | 3.51       | 282.08     | 2.87           |
| 2017/01/21 01:42 | 3.46       | 255.55     | 2.66           |
| 2017/01/21 01:57 | 3.43       | 240.62     | 2.54           |
| 2017/01/21 02:12 | 3.39       | 235.35     | 2.53           |
| 2017/01/21 02:27 | 3.32       | 229.65     | 2.54           |
| 2017/01/21 02:42 | 3.23       | 225.97     | 2.59           |
| 2017/01/21 02:57 | 3.19       | 216.39     | 2.53           |
| 2017/01/21 03:12 | 3.18       | 214.51     | 2.52           |
| 2017/01/21 03:27 | 3.14       | 210.49     | 2.52           |
| 2017/01/21 03:42 | 3.07       | 201.18     | 2.49           |
| 2017/01/21 03:57 | 3.05       | 196.18     | 2.44           |
| 2017/01/21 04:12 | 2.98       | 189.86     | 2.44           |
| 2017/01/21 04:27 | 2.98       | 189.86     | 2.44           |
| 2017/01/21 04:42 | 2.98       | 189.86     | 2.44           |
| 2017/01/21 04:57 | 2.98       | 182.50     | 2.35           |
| 2017/01/21 05:12 | 3.00       | 191.11     | 2.44           |
| 2017/01/21 05:27 | 3.05       | 197.78     | 2.46           |
| 2017/01/21 05:42 | 3.07       | 218.19     | 2.70           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 05:57 | 3.21       | 237.29     | 2.75           |
| 2017/01/21 06:12 | 3.34       | 246.87     | 2.70           |
| 2017/01/21 06:27 | 3.46       | 272.08     | 2.84           |
| 2017/01/21 06:42 | 3.46       | 272.08     | 2.84           |
| 2017/01/21 06:57 | 3.47       | 275.28     | 2.85           |
| 2017/01/21 07:12 | 3.72       | 304.72     | 2.86           |
| 2017/01/21 07:27 | 4.05       | 377.15     | 3.14           |
| 2017/01/21 07:42 | 4.50       | 436.04     | 3.14           |
| 2017/01/21 07:57 | 4.54       | 461.18     | 3.28           |
| 2017/01/21 08:12 | 4.96       | 521.73     | 3.29           |
| 2017/01/21 08:27 | 5.50       | 607.71     | 3.32           |
| 2017/01/21 08:42 | 5.76       | 658.75     | 3.38           |
| 2017/01/21 08:57 | 5.95       | 680.97     | 3.34           |
| 2017/01/21 09:12 | 6.11       | 704.37     | 3.34           |
| 2017/01/21 09:27 | 6.20       | 719.30     | 3.34           |
| 2017/01/21 09:42 | 6.47       | 760.07     | 3.34           |
| 2017/01/21 09:57 | 6.75       | 812.29     | 3.38           |
| 2017/01/21 10:12 | 6.77       | 816.66     | 3.38           |
| 2017/01/21 10:27 | 6.83       | 825.41     | 3.38           |
| 2017/01/21 10:42 | 6.83       | 825.41     | 3.38           |
| 2017/01/21 10:57 | 6.83       | 825.41     | 3.38           |
| 2017/01/21 11:12 | 6.95       | 845.14     | 3.38           |
| 2017/01/21 11:27 | 6.95       | 842.08     | 3.37           |
| 2017/01/21 11:42 | 6.84       | 807.84     | 3.30           |
| 2017/01/21 11:57 | 6.83       | 805.69     | 3.30           |
| 2017/01/21 12:12 | 6.76       | 795.00     | 3.30           |
| 2017/01/21 12:27 | 6.75       | 809.37     | 3.37           |
| 2017/01/21 12:42 | 6.64       | 810.97     | 3.45           |
| 2017/01/21 12:57 | 6.64       | 826.80     | 3.52           |
| 2017/01/21 13:12 | 6.48       | 801.87     | 3.52           |
| 2017/01/21 13:27 | 6.45       | 827.08     | 3.65           |
| 2017/01/21 13:42 | 6.45       | 827.08     | 3.65           |
| 2017/01/21 13:57 | 6.45       | 849.58     | 3.75           |
| 2017/01/21 14:12 | 6.45       | 786.94     | 3.47           |
| 2017/01/21 14:27 | 6.36       | 771.32     | 3.47           |
| 2017/01/21 14:42 | 6.32       | 693.05     | 3.15           |
| 2017/01/21 14:57 | 6.29       | 760.21     | 3.47           |
| 2017/01/21 15:12 | 6.09       | 729.16     | 3.47           |
| 2017/01/21 15:27 | 6.01       | 715.90     | 3.47           |
| 2017/01/21 15:42 | 5.97       | 696.46     | 3.41           |
| 2017/01/21 15:57 | 5.97       | 661.60     | 3.24           |
| 2017/01/21 16:12 | 5.97       | 696.46     | 3.41           |
| 2017/01/21 16:27 | 5.95       | 738.75     | 3.63           |
| 2017/01/21 16:42 | 5.95       | 738.75     | 3.63           |
| 2017/01/21 16:57 | 5.97       | 732.36     | 3.58           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 17:12 | 6.04       | 752.57     | 3.63           |
| 2017/01/21 17:27 | 6.04       | 752.57     | 3.63           |
| 2017/01/21 17:42 | 6.04       | 752.57     | 3.63           |
| 2017/01/21 17:57 | 6.02       | 741.46     | 3.58           |
| 2017/01/21 18:12 | 6.02       | 741.46     | 3.58           |
| 2017/01/21 18:27 | 6.02       | 741.46     | 3.58           |
| 2017/01/21 18:42 | 5.97       | 688.68     | 3.37           |
| 2017/01/21 18:57 | 5.93       | 682.29     | 3.37           |
| 2017/01/21 19:12 | 5.97       | 745.14     | 3.65           |
| 2017/01/21 19:27 | 5.93       | 738.19     | 3.65           |
| 2017/01/21 19:42 | 5.80       | 723.96     | 3.68           |
| 2017/01/21 19:57 | 5.79       | 715.07     | 3.65           |
| 2017/01/21 20:12 | 5.79       | 709.65     | 3.62           |
| 2017/01/21 20:27 | 5.72       | 698.26     | 3.62           |
| 2017/01/21 20:42 | 5.72       | 692.64     | 3.59           |
| 2017/01/21 20:57 | 5.68       | 685.90     | 3.59           |
| 2017/01/21 21:12 | 5.40       | 640.90     | 3.59           |
| 2017/01/21 21:27 | 5.27       | 619.72     | 3.58           |
| 2017/01/21 21:42 | 5.21       | 592.29     | 3.49           |
| 2017/01/21 21:57 | 5.15       | 583.68     | 3.49           |
| 2017/01/21 22:12 | 5.00       | 560.14     | 3.49           |
| 2017/01/21 22:27 | 5.00       | 563.05     | 3.51           |
| 2017/01/21 22:42 | 4.89       | 543.12     | 3.49           |
| 2017/01/21 22:57 | 4.77       | 474.17     | 3.14           |
| 2017/01/21 23:12 | 4.77       | 447.71     | 2.97           |
| 2017/01/21 23:27 | 4.55       | 419.17     | 2.97           |
| 2017/01/21 23:42 | 4.48       | 388.82     | 2.81           |
| 2017/01/21 23:57 | 4.48       | 410.28     | 2.97           |
| 2017/01/22 00:12 | 4.30       | 368.40     | 2.82           |
| 2017/01/22 00:27 | 4.22       | 347.64     | 2.74           |
| 2017/01/22 00:42 | 4.14       | 325.21     | 2.63           |
| 2017/01/22 00:57 | 3.90       | 299.51     | 2.63           |
| 2017/01/22 01:12 | 3.83       | 292.01     | 2.63           |
| 2017/01/22 01:27 | 3.83       | 298.47     | 2.69           |
| 2017/01/22 01:42 | 3.55       | 268.40     | 2.69           |
| 2017/01/22 01:57 | 3.47       | 253.89     | 2.63           |
| 2017/01/22 02:12 | 3.46       | 250.69     | 2.61           |
| 2017/01/22 02:27 | 3.44       | 256.60     | 2.69           |
| 2017/01/22 02:42 | 3.39       | 243.61     | 2.61           |
| 2017/01/22 02:57 | 3.36       | 247.78     | 2.69           |
| 2017/01/22 03:12 | 3.33       | 240.83     | 2.65           |
| 2017/01/22 03:27 | 3.30       | 230.35     | 2.56           |
| 2017/01/22 03:42 | 3.23       | 230.90     | 2.65           |
| 2017/01/22 03:57 | 3.18       | 225.28     | 2.65           |
| 2017/01/22 04:12 | 3.18       | 225.28     | 2.65           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 04:27 | 3.18       | 227.08     | 2.67           |
| 2017/01/22 04:42 | 3.18       | 227.08     | 2.67           |
| 2017/01/22 04:57 | 3.25       | 234.24     | 2.67           |
| 2017/01/22 05:12 | 3.30       | 239.93     | 2.67           |
| 2017/01/22 05:27 | 3.34       | 238.68     | 2.61           |
| 2017/01/22 05:42 | 3.43       | 256.67     | 2.71           |
| 2017/01/22 05:57 | 3.50       | 268.68     | 2.75           |
| 2017/01/22 06:12 | 3.50       | 268.68     | 2.75           |
| 2017/01/22 06:27 | 4.00       | 324.44     | 2.75           |
| 2017/01/22 06:42 | 4.00       | 347.78     | 2.95           |
| 2017/01/22 06:57 | 4.00       | 358.40     | 3.04           |
| 2017/01/22 07:12 | 4.00       | 358.40     | 3.04           |
| 2017/01/22 07:27 | 4.02       | 362.08     | 3.04           |
| 2017/01/22 07:42 | 4.02       | 362.08     | 3.04           |
| 2017/01/22 07:57 | 4.02       | 390.90     | 3.29           |
| 2017/01/22 08:12 | 4.73       | 502.36     | 3.37           |
| 2017/01/22 08:27 | 5.61       | 681.46     | 3.63           |
| 2017/01/22 08:42 | 5.90       | 729.58     | 3.63           |
| 2017/01/22 08:57 | 5.94       | 736.46     | 3.63           |
| 2017/01/22 09:12 | 6.00       | 745.69     | 3.63           |
| 2017/01/22 09:27 | 6.11       | 764.16     | 3.63           |
| 2017/01/22 09:42 | 6.93       | 813.82     | 3.27           |
| 2017/01/22 09:57 | 7.20       | 836.66     | 3.20           |
| 2017/01/22 10:12 | 7.20       | 836.66     | 3.20           |
| 2017/01/22 10:27 | 7.20       | 836.66     | 3.20           |
| 2017/01/22 10:42 | 7.52       | 884.44     | 3.20           |
| 2017/01/22 10:57 | 7.52       | 847.71     | 3.07           |
| 2017/01/22 11:12 | 7.52       | 847.71     | 3.07           |
| 2017/01/22 11:27 | 8.29       | 1010.76    | 3.24           |
| 2017/01/22 11:42 | 8.68       | 1069.09    | 3.24           |
| 2017/01/22 11:57 | 8.77       | 1034.65    | 3.09           |
| 2017/01/22 12:12 | 8.93       | 1047.50    | 3.07           |
| 2017/01/22 12:27 | 9.20       | 1086.39    | 3.07           |
| 2017/01/22 12:42 | 9.27       | 829.30     | 2.32           |
| 2017/01/22 12:57 | 12.40      | 1117.36    | 2.29           |
| 2017/01/22 13:12 | 12.40      | 1114.37    | 2.29           |
| 2017/01/22 13:27 | 14.09      | 1116.32    | 2.08           |
| 2017/01/22 13:42 | 15.86      | 1139.44    | 2.07           |
| 2017/01/22 13:57 | 16.24      | 1035.41    | 1.88           |
| 2017/01/22 14:12 | 16.73      | 556.32     | 1.01           |
| 2017/01/22 14:27 | 16.87      | 545.41     | 0.99           |
| 2017/01/22 14:42 | 17.19      | 545.41     | 0.99           |
| 2017/01/22 14:57 | 17.30      | 365.00     | 0.66           |
| 2017/01/22 15:12 | 17.30      | 365.00     | 0.66           |
| 2017/01/22 15:27 | 17.30      | 364.17     | 0.66           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 15:42 | 17.41      | 364.17     | 0.66           |
| 2017/01/22 15:57 | 17.41      | 364.17     | 0.66           |
| 2017/01/22 16:12 | 17.19      | 375.07     | 0.68           |
| 2017/01/22 16:27 | 17.04      | 375.07     | 0.68           |
| 2017/01/22 16:42 | 15.69      | 699.79     | 1.27           |
| 2017/01/22 16:57 | 10.69      | 665.14     | 1.58           |
| 2017/01/22 17:12 | 8.59       | 753.40     | 2.31           |
| 2017/01/22 17:27 | 8.29       | 720.69     | 2.31           |
| 2017/01/22 17:42 | 6.94       | 575.48     | 2.31           |
| 2017/01/22 17:57 | 6.77       | 546.18     | 2.26           |
| 2017/01/22 18:12 | 6.73       | 541.80     | 2.26           |
| 2017/01/22 18:27 | 6.58       | 542.78     | 2.33           |
| 2017/01/22 18:42 | 6.50       | 559.58     | 2.45           |
| 2017/01/22 18:57 | 6.50       | 517.01     | 2.26           |
| 2017/01/22 19:12 | 6.39       | 518.33     | 2.32           |
| 2017/01/22 19:27 | 6.43       | 551.73     | 2.45           |
| 2017/01/22 19:42 | 6.39       | 547.01     | 2.45           |
| 2017/01/22 19:57 | 6.37       | 545.41     | 2.45           |
| 2017/01/22 20:12 | 6.37       | 516.87     | 2.32           |
| 2017/01/22 20:27 | 6.37       | 516.87     | 2.32           |
| 2017/01/22 20:42 | 6.37       | 579.44     | 2.60           |
| 2017/01/22 20:57 | 6.37       | 579.44     | 2.60           |
| 2017/01/22 21:12 | 6.33       | 549.79     | 2.49           |
| 2017/01/22 21:27 | 6.30       | 546.60     | 2.49           |
| 2017/01/22 21:42 | 6.29       | 537.98     | 2.46           |
| 2017/01/22 21:57 | 5.90       | 494.17     | 2.46           |
| 2017/01/22 22:12 | 5.79       | 445.48     | 2.27           |
| 2017/01/22 22:27 | 5.37       | 397.85     | 2.24           |
| 2017/01/22 22:42 | 5.11       | 371.46     | 2.24           |
| 2017/01/22 22:57 | 5.09       | 370.07     | 2.24           |
| 2017/01/22 23:12 | 5.09       | 358.75     | 2.18           |
| 2017/01/22 23:27 | 5.09       | 352.22     | 2.14           |
| 2017/01/22 23:42 | 5.09       | 352.22     | 2.14           |
| 2017/01/22 23:57 | 5.00       | 343.05     | 2.14           |
| 2017/01/23 00:12 | 4.76       | 315.69     | 2.10           |
| 2017/01/23 00:27 | 4.68       | 308.05     | 2.10           |
| 2017/01/23 00:42 | 4.54       | 294.24     | 2.09           |
| 2017/01/23 00:57 | 4.29       | 234.86     | 1.81           |
| 2017/01/23 01:12 | 3.73       | 181.39     | 1.70           |
| 2017/01/23 01:27 | 3.72       | 136.46     | 1.28           |
| 2017/01/23 01:42 | 3.50       | 120.56     | 1.24           |
| 2017/01/23 01:57 | 3.36       | 110.49     | 1.20           |
| 2017/01/23 02:12 | 3.36       | 103.47     | 1.12           |
| 2017/01/23 02:27 | 3.21       | 86.53      | 1.00           |
| 2017/01/23 02:42 | 3.21       | 86.53      | 1.00           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 02:57 | 3.21       | 89.17      | 1.03           |
| 2017/01/23 03:12 | 3.15       | 87.64      | 1.04           |
| 2017/01/23 03:27 | 3.15       | 87.01      | 1.03           |
| 2017/01/23 03:42 | 3.15       | 87.01      | 1.03           |
| 2017/01/23 03:57 | 3.15       | 87.64      | 1.04           |
| 2017/01/23 04:12 | 3.15       | 88.68      | 1.05           |
| 2017/01/23 04:27 | 3.15       | 87.64      | 1.04           |
| 2017/01/23 04:42 | 3.15       | 98.40      | 1.17           |
| 2017/01/23 04:57 | 3.15       | 98.40      | 1.17           |
| 2017/01/23 05:12 | 3.16       | 99.03      | 1.17           |
| 2017/01/23 05:27 | 3.21       | 95.90      | 1.11           |
| 2017/01/23 05:42 | 3.21       | 95.76      | 1.11           |
| 2017/01/23 05:57 | 3.41       | 104.72     | 1.11           |
| 2017/01/23 06:12 | 3.62       | 114.03     | 1.11           |
| 2017/01/23 06:27 | 3.86       | 124.65     | 1.11           |
| 2017/01/23 06:42 | 4.46       | 207.71     | 1.52           |
| 2017/01/23 06:57 | 4.66       | 244.86     | 1.68           |
| 2017/01/23 07:12 | 5.04       | 319.72     | 1.97           |
| 2017/01/23 07:27 | 5.08       | 323.33     | 1.97           |
| 2017/01/23 07:42 | 5.72       | 392.08     | 2.03           |
| 2017/01/23 07:57 | 6.43       | 443.68     | 1.97           |
| 2017/01/23 08:12 | 6.54       | 468.61     | 2.03           |
| 2017/01/23 08:27 | 6.58       | 507.98     | 2.19           |
| 2017/01/23 08:42 | 6.58       | 507.98     | 2.19           |
| 2017/01/23 08:57 | 6.58       | 607.71     | 2.61           |
| 2017/01/23 09:12 | 6.58       | 645.62     | 2.78           |
| 2017/01/23 09:27 | 6.57       | 643.89     | 2.78           |
| 2017/01/23 09:42 | 6.52       | 638.47     | 2.78           |
| 2017/01/23 09:57 | 6.50       | 597.57     | 2.61           |
| 2017/01/23 10:12 | 6.45       | 555.21     | 2.45           |
| 2017/01/23 10:27 | 6.43       | 549.65     | 2.44           |
| 2017/01/23 10:42 | 6.43       | 538.26     | 2.39           |
| 2017/01/23 10:57 | 6.15       | 507.71     | 2.39           |
| 2017/01/23 11:12 | 6.14       | 506.18     | 2.39           |
| 2017/01/23 11:27 | 6.14       | 471.87     | 2.23           |
| 2017/01/23 11:42 | 6.14       | 519.10     | 2.45           |
| 2017/01/23 11:57 | 6.14       | 520.07     | 2.45           |
| 2017/01/23 12:12 | 6.14       | 520.07     | 2.45           |
| 2017/01/23 12:27 | 6.14       | 520.07     | 2.45           |
| 2017/01/23 12:42 | 6.20       | 462.57     | 2.15           |
| 2017/01/23 12:57 | 6.20       | 422.22     | 1.96           |
| 2017/01/23 13:12 | 6.20       | 393.61     | 1.83           |
| 2017/01/23 13:27 | 6.11       | 383.54     | 1.82           |
| 2017/01/23 13:42 | 5.98       | 373.12     | 1.82           |
| 2017/01/23 13:57 | 5.98       | 373.12     | 1.82           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 14:12 | 5.95       | 372.64     | 1.83           |
| 2017/01/23 14:27 | 5.69       | 348.89     | 1.82           |
| 2017/01/23 14:42 | 5.25       | 309.58     | 1.80           |
| 2017/01/23 14:57 | 5.23       | 308.47     | 1.80           |
| 2017/01/23 15:12 | 5.14       | 303.47     | 1.82           |
| 2017/01/23 15:27 | 5.14       | 303.47     | 1.82           |
| 2017/01/23 15:42 | 5.14       | 313.19     | 1.88           |
| 2017/01/23 15:57 | 5.00       | 292.29     | 1.82           |
| 2017/01/23 16:12 | 5.00       | 316.80     | 1.97           |
| 2017/01/23 16:27 | 5.02       | 319.24     | 1.97           |
| 2017/01/23 16:42 | 5.02       | 294.58     | 1.82           |
| 2017/01/23 16:57 | 5.02       | 287.15     | 1.77           |
| 2017/01/23 17:12 | 5.02       | 287.15     | 1.77           |
| 2017/01/23 17:27 | 5.02       | 287.15     | 1.77           |
| 2017/01/23 17:42 | 5.46       | 321.18     | 1.77           |
| 2017/01/23 17:57 | 5.61       | 333.40     | 1.77           |
| 2017/01/23 18:12 | 5.73       | 343.47     | 1.77           |
| 2017/01/23 18:27 | 5.82       | 383.05     | 1.94           |
| 2017/01/23 18:42 | 5.82       | 383.33     | 1.94           |
| 2017/01/23 18:57 | 5.83       | 390.28     | 1.97           |
| 2017/01/23 19:12 | 5.91       | 397.78     | 1.97           |
| 2017/01/23 19:27 | 5.93       | 399.03     | 1.97           |
| 2017/01/23 19:42 | 6.12       | 416.60     | 1.97           |
| 2017/01/23 19:57 | 6.20       | 426.11     | 1.98           |
| 2017/01/23 20:12 | 6.22       | 427.43     | 1.98           |
| 2017/01/23 20:27 | 6.27       | 446.80     | 2.05           |
| 2017/01/23 20:42 | 6.25       | 444.17     | 2.05           |
| 2017/01/23 20:57 | 6.25       | 452.78     | 2.09           |
| 2017/01/23 21:12 | 6.25       | 461.04     | 2.12           |
| 2017/01/23 21:27 | 6.25       | 556.80     | 2.57           |
| 2017/01/23 21:42 | 6.15       | 545.35     | 2.57           |
| 2017/01/23 21:57 | 6.12       | 542.01     | 2.57           |
| 2017/01/23 22:12 | 5.62       | 479.51     | 2.54           |
| 2017/01/23 22:27 | 5.62       | 479.51     | 2.54           |
| 2017/01/23 22:42 | 5.55       | 412.98     | 2.23           |
| 2017/01/23 22:57 | 5.14       | 358.19     | 2.15           |
| 2017/01/23 23:12 | 4.94       | 337.85     | 2.14           |
| 2017/01/23 23:27 | 4.84       | 317.43     | 2.06           |
| 2017/01/23 23:42 | 4.62       | 297.08     | 2.06           |
| 2017/01/23 23:57 | 4.55       | 287.71     | 2.04           |
| 2017/01/24 00:12 | 4.51       | 278.96     | 2.00           |
| 2017/01/24 00:27 | 4.33       | 263.54     | 2.00           |
| 2017/01/24 00:42 | 3.98       | 221.80     | 1.89           |
| 2017/01/24 00:57 | 3.62       | 166.81     | 1.63           |
| 2017/01/24 01:12 | 3.48       | 151.46     | 1.56           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 01:27 | 3.44       | 144.93     | 1.52           |
| 2017/01/24 01:42 | 3.37       | 127.78     | 1.38           |
| 2017/01/24 01:57 | 3.18       | 102.92     | 1.21           |
| 2017/01/24 02:12 | 3.09       | 99.10      | 1.21           |
| 2017/01/24 02:27 | 3.05       | 96.53      | 1.20           |
| 2017/01/24 02:42 | 2.97       | 92.78      | 1.20           |
| 2017/01/24 02:57 | 2.96       | 92.15      | 1.20           |
| 2017/01/24 03:12 | 2.87       | 90.97      | 1.23           |
| 2017/01/24 03:27 | 2.87       | 90.97      | 1.23           |
| 2017/01/24 03:42 | 2.87       | 90.97      | 1.23           |
| 2017/01/24 03:57 | 2.87       | 75.42      | 1.02           |
| 2017/01/24 04:12 | 2.87       | 72.08      | 0.98           |
| 2017/01/24 04:27 | 2.87       | 72.08      | 0.98           |
| 2017/01/24 04:42 | 2.89       | 72.57      | 0.98           |
| 2017/01/24 04:57 | 2.98       | 74.31      | 0.96           |
| 2017/01/24 05:12 | 2.98       | 74.31      | 0.96           |
| 2017/01/24 05:27 | 3.02       | 80.90      | 1.02           |
| 2017/01/24 05:42 | 3.19       | 88.75      | 1.04           |
| 2017/01/24 05:57 | 3.21       | 101.18     | 1.17           |
| 2017/01/24 06:12 | 3.86       | 184.51     | 1.65           |
| 2017/01/24 06:27 | 4.14       | 266.80     | 2.16           |
| 2017/01/24 06:42 | 4.34       | 297.85     | 2.25           |
| 2017/01/24 06:57 | 4.91       | 357.01     | 2.28           |
| 2017/01/24 07:12 | 5.29       | 394.79     | 2.28           |
| 2017/01/24 07:27 | 5.80       | 453.26     | 2.30           |
| 2017/01/24 07:42 | 6.04       | 478.12     | 2.30           |
| 2017/01/24 07:57 | 6.50       | 559.58     | 2.45           |
| 2017/01/24 08:12 | 6.50       | 638.05     | 2.79           |
| 2017/01/24 08:27 | 6.50       | 638.05     | 2.79           |
| 2017/01/24 08:42 | 6.50       | 670.83     | 2.93           |
| 2017/01/24 08:57 | 6.36       | 652.01     | 2.93           |
| 2017/01/24 09:12 | 6.36       | 594.03     | 2.67           |
| 2017/01/24 09:27 | 6.34       | 542.29     | 2.45           |
| 2017/01/24 09:42 | 6.34       | 592.29     | 2.67           |
| 2017/01/24 09:57 | 6.33       | 590.62     | 2.67           |
| 2017/01/24 10:12 | 6.32       | 597.29     | 2.71           |
| 2017/01/24 10:27 | 6.25       | 580.35     | 2.67           |
| 2017/01/24 10:42 | 6.23       | 578.61     | 2.67           |
| 2017/01/24 10:57 | 6.00       | 523.54     | 2.55           |
| 2017/01/24 11:12 | 6.00       | 523.54     | 2.55           |
| 2017/01/24 11:27 | 6.00       | 475.28     | 2.31           |
| 2017/01/24 11:42 | 5.97       | 472.29     | 2.31           |
| 2017/01/24 11:57 | 5.95       | 470.83     | 2.31           |
| 2017/01/24 12:12 | 5.95       | 470.83     | 2.31           |
| 2017/01/24 12:27 | 5.95       | 466.18     | 2.29           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 12:42 | 5.75       | 448.89     | 2.31           |
| 2017/01/24 12:57 | 5.68       | 441.60     | 2.31           |
| 2017/01/24 13:12 | 5.61       | 451.53     | 2.40           |
| 2017/01/24 13:27 | 5.61       | 430.00     | 2.29           |
| 2017/01/24 13:42 | 5.61       | 430.00     | 2.29           |
| 2017/01/24 13:57 | 5.61       | 429.44     | 2.29           |
| 2017/01/24 14:12 | 5.61       | 440.07     | 2.34           |
| 2017/01/24 14:27 | 5.29       | 406.46     | 2.34           |
| 2017/01/24 14:42 | 5.21       | 397.71     | 2.34           |
| 2017/01/24 14:57 | 5.12       | 379.65     | 2.29           |
| 2017/01/24 15:12 | 5.05       | 372.64     | 2.29           |
| 2017/01/24 15:27 | 4.96       | 362.85     | 2.29           |
| 2017/01/24 15:42 | 4.96       | 357.29     | 2.25           |
| 2017/01/24 15:57 | 4.93       | 326.87     | 2.08           |
| 2017/01/24 16:12 | 4.93       | 326.87     | 2.08           |
| 2017/01/24 16:27 | 4.96       | 339.37     | 2.14           |
| 2017/01/24 16:42 | 5.00       | 346.46     | 2.16           |
| 2017/01/24 16:57 | 5.04       | 365.07     | 2.25           |
| 2017/01/24 17:12 | 5.34       | 395.62     | 2.25           |
| 2017/01/24 17:27 | 5.34       | 395.62     | 2.25           |
| 2017/01/24 17:42 | 5.39       | 399.79     | 2.25           |
| 2017/01/24 17:57 | 5.55       | 416.67     | 2.25           |
| 2017/01/24 18:12 | 5.55       | 422.57     | 2.28           |
| 2017/01/24 18:27 | 5.55       | 418.05     | 2.26           |
| 2017/01/24 18:42 | 5.55       | 422.57     | 2.28           |
| 2017/01/24 18:57 | 5.55       | 422.57     | 2.28           |
| 2017/01/24 19:12 | 5.61       | 452.43     | 2.41           |
| 2017/01/24 19:27 | 5.77       | 470.62     | 2.41           |
| 2017/01/24 19:42 | 5.91       | 504.93     | 2.50           |
| 2017/01/24 19:57 | 5.91       | 504.93     | 2.50           |
| 2017/01/24 20:12 | 6.02       | 517.64     | 2.50           |
| 2017/01/24 20:27 | 6.04       | 504.03     | 2.43           |
| 2017/01/24 20:42 | 6.05       | 505.62     | 2.43           |
| 2017/01/24 20:57 | 6.05       | 464.93     | 2.23           |
| 2017/01/24 21:12 | 5.97       | 456.39     | 2.23           |
| 2017/01/24 21:27 | 5.97       | 422.43     | 2.07           |
| 2017/01/24 21:42 | 5.97       | 456.39     | 2.23           |
| 2017/01/24 21:57 | 5.97       | 456.39     | 2.23           |
| 2017/01/24 22:12 | 5.89       | 414.58     | 2.07           |
| 2017/01/24 22:27 | 5.82       | 407.98     | 2.07           |
| 2017/01/24 22:42 | 5.75       | 448.61     | 2.31           |
| 2017/01/24 22:57 | 5.25       | 450.76     | 2.63           |
| 2017/01/24 23:12 | 5.25       | 450.76     | 2.63           |
| 2017/01/24 23:27 | 5.18       | 389.44     | 2.31           |
| 2017/01/24 23:42 | 4.83       | 354.10     | 2.31           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 23:57 | 4.68       | 338.75     | 2.31           |
| 2017/01/25 00:12 | 4.36       | 285.00     | 2.14           |
| 2017/01/25 00:27 | 4.21       | 262.43     | 2.08           |
| 2017/01/25 00:42 | 4.18       | 229.24     | 1.83           |
| 2017/01/25 00:57 | 3.82       | 201.94     | 1.83           |
| 2017/01/25 01:12 | 3.80       | 186.87     | 1.70           |
| 2017/01/25 01:27 | 3.46       | 163.19     | 1.70           |
| 2017/01/25 01:42 | 3.44       | 154.72     | 1.62           |
| 2017/01/25 01:57 | 3.33       | 134.44     | 1.48           |
| 2017/01/25 02:12 | 3.07       | 114.72     | 1.42           |
| 2017/01/25 02:27 | 3.07       | 120.28     | 1.49           |
| 2017/01/25 02:42 | 3.02       | 115.62     | 1.46           |
| 2017/01/25 02:57 | 3.01       | 108.75     | 1.38           |
| 2017/01/25 03:12 | 2.96       | 98.40      | 1.28           |
| 2017/01/25 03:27 | 2.94       | 97.71      | 1.28           |
| 2017/01/25 03:42 | 2.93       | 97.08      | 1.28           |
| 2017/01/25 03:57 | 2.89       | 108.12     | 1.46           |
| 2017/01/25 04:12 | 2.87       | 107.36     | 1.46           |
| 2017/01/25 04:27 | 2.87       | 93.75      | 1.27           |
| 2017/01/25 04:42 | 2.87       | 108.47     | 1.47           |
| 2017/01/25 04:57 | 2.89       | 116.53     | 1.57           |
| 2017/01/25 05:12 | 3.11       | 129.51     | 1.57           |
| 2017/01/25 05:27 | 3.16       | 135.69     | 1.60           |
| 2017/01/25 05:42 | 3.19       | 150.21     | 1.75           |
| 2017/01/25 05:57 | 3.21       | 154.79     | 1.80           |
| 2017/01/25 06:12 | 3.57       | 182.92     | 1.82           |
| 2017/01/25 06:27 | 4.11       | 223.19     | 1.82           |
| 2017/01/25 06:42 | 4.18       | 251.25     | 2.01           |
| 2017/01/25 06:57 | 4.47       | 282.08     | 2.05           |
| 2017/01/25 07:12 | 5.36       | 361.94     | 2.05           |
| 2017/01/25 07:27 | 5.48       | 412.08     | 2.26           |
| 2017/01/25 07:42 | 5.91       | 460.62     | 2.28           |
| 2017/01/25 07:57 | 6.44       | 516.04     | 2.28           |
| 2017/01/25 08:12 | 6.44       | 516.04     | 2.28           |
| 2017/01/25 08:27 | 6.66       | 543.12     | 2.30           |
| 2017/01/25 08:42 | 6.66       | 543.12     | 2.30           |
| 2017/01/25 08:57 | 6.66       | 543.12     | 2.30           |
| 2017/01/25 09:12 | 6.52       | 528.33     | 2.30           |
| 2017/01/25 09:27 | 6.45       | 510.55     | 2.25           |
| 2017/01/25 09:42 | 6.40       | 466.80     | 2.08           |
| 2017/01/25 09:57 | 6.40       | 466.80     | 2.08           |
| 2017/01/25 10:12 | 6.30       | 457.50     | 2.08           |
| 2017/01/25 10:27 | 6.30       | 454.44     | 2.07           |
| 2017/01/25 10:42 | 6.30       | 448.40     | 2.04           |
| 2017/01/25 10:57 | 6.20       | 448.12     | 2.08           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 11:12 | 6.16       | 483.19     | 2.27           |
| 2017/01/25 11:27 | 6.16       | 483.19     | 2.27           |
| 2017/01/25 11:42 | 6.12       | 431.46     | 2.04           |
| 2017/01/25 11:57 | 6.12       | 429.51     | 2.03           |
| 2017/01/25 12:12 | 6.11       | 396.04     | 1.88           |
| 2017/01/25 12:27 | 6.08       | 355.62     | 1.70           |
| 2017/01/25 12:42 | 6.05       | 353.47     | 1.70           |
| 2017/01/25 12:57 | 6.05       | 353.47     | 1.70           |
| 2017/01/25 13:12 | 6.05       | 391.25     | 1.88           |
| 2017/01/25 13:27 | 5.89       | 419.44     | 2.09           |
| 2017/01/25 13:42 | 5.89       | 430.76     | 2.15           |
| 2017/01/25 13:57 | 5.80       | 429.23     | 2.18           |
| 2017/01/25 14:12 | 5.68       | 416.80     | 2.18           |
| 2017/01/25 14:27 | 5.54       | 403.12     | 2.18           |
| 2017/01/25 14:42 | 5.54       | 403.12     | 2.18           |
| 2017/01/25 14:57 | 5.46       | 394.93     | 2.18           |
| 2017/01/25 15:12 | 5.36       | 385.42     | 2.18           |
| 2017/01/25 15:27 | 5.36       | 374.93     | 2.12           |
| 2017/01/25 15:42 | 5.33       | 364.23     | 2.08           |
| 2017/01/25 15:57 | 5.33       | 364.23     | 2.08           |
| 2017/01/25 16:12 | 5.23       | 355.21     | 2.08           |
| 2017/01/25 16:27 | 5.33       | 364.23     | 2.08           |
| 2017/01/25 16:42 | 5.39       | 396.53     | 2.23           |
| 2017/01/25 16:57 | 5.58       | 416.04     | 2.23           |
| 2017/01/25 17:12 | 5.55       | 413.26     | 2.23           |
| 2017/01/25 17:27 | 5.58       | 416.04     | 2.23           |
| 2017/01/25 17:42 | 5.61       | 389.03     | 2.07           |
| 2017/01/25 17:57 | 5.73       | 387.15     | 2.00           |
| 2017/01/25 18:12 | 5.87       | 399.86     | 2.00           |
| 2017/01/25 18:27 | 5.90       | 400.55     | 1.99           |
| 2017/01/25 18:42 | 5.90       | 402.36     | 2.00           |
| 2017/01/25 18:57 | 5.91       | 417.78     | 2.07           |
| 2017/01/25 19:12 | 6.11       | 421.46     | 2.00           |
| 2017/01/25 19:27 | 6.11       | 497.98     | 2.36           |
| 2017/01/25 19:42 | 6.11       | 506.67     | 2.40           |
| 2017/01/25 19:57 | 6.14       | 500.97     | 2.36           |
| 2017/01/25 20:12 | 6.18       | 514.30     | 2.40           |
| 2017/01/25 20:27 | 6.18       | 505.48     | 2.36           |
| 2017/01/25 20:42 | 6.18       | 437.29     | 2.04           |
| 2017/01/25 20:57 | 6.12       | 508.19     | 2.40           |
| 2017/01/25 21:12 | 6.12       | 432.08     | 2.04           |
| 2017/01/25 21:27 | 6.12       | 432.08     | 2.04           |
| 2017/01/25 21:42 | 5.86       | 407.36     | 2.04           |
| 2017/01/25 21:57 | 5.83       | 404.79     | 2.04           |
| 2017/01/25 22:12 | 5.75       | 404.44     | 2.08           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 22:27 | 5.73       | 403.12     | 2.08           |
| 2017/01/25 22:42 | 5.52       | 362.43     | 1.97           |
| 2017/01/25 22:57 | 5.27       | 340.35     | 1.97           |
| 2017/01/25 23:12 | 5.04       | 276.60     | 1.70           |
| 2017/01/25 23:27 | 5.02       | 318.47     | 1.97           |
| 2017/01/25 23:42 | 5.00       | 276.18     | 1.72           |
| 2017/01/25 23:57 | 4.76       | 258.33     | 1.72           |
| 2017/01/26 00:12 | 4.61       | 248.96     | 1.73           |
| 2017/01/26 00:27 | 4.33       | 226.53     | 1.72           |
| 2017/01/26 00:42 | 3.94       | 198.61     | 1.72           |
| 2017/01/26 00:57 | 3.90       | 195.69     | 1.72           |
| 2017/01/26 01:12 | 3.64       | 165.83     | 1.61           |
| 2017/01/26 01:27 | 3.40       | 150.76     | 1.61           |
| 2017/01/26 01:42 | 3.27       | 128.96     | 1.45           |
| 2017/01/26 01:57 | 3.26       | 88.96      | 1.01           |
| 2017/01/26 02:12 | 3.18       | 85.76      | 1.01           |
| 2017/01/26 02:27 | 3.16       | 85.21      | 1.01           |
| 2017/01/26 02:42 | 2.97       | 77.85      | 1.01           |
| 2017/01/26 02:57 | 2.90       | 75.21      | 1.01           |
| 2017/01/26 03:12 | 2.89       | 74.72      | 1.01           |
| 2017/01/26 03:27 | 2.87       | 74.10      | 1.01           |
| 2017/01/26 03:42 | 2.84       | 73.06      | 1.01           |
| 2017/01/26 03:57 | 2.84       | 73.06      | 1.01           |
| 2017/01/26 04:12 | 2.87       | 74.10      | 1.01           |
| 2017/01/26 04:27 | 2.90       | 77.15      | 1.03           |
| 2017/01/26 04:42 | 2.91       | 94.72      | 1.26           |
| 2017/01/26 04:57 | 3.00       | 95.00      | 1.21           |
| 2017/01/26 05:12 | 3.09       | 103.19     | 1.26           |
| 2017/01/26 05:27 | 3.09       | 103.19     | 1.26           |
| 2017/01/26 05:42 | 3.09       | 103.19     | 1.26           |
| 2017/01/26 05:57 | 3.37       | 124.86     | 1.35           |
| 2017/01/26 06:12 | 3.39       | 170.07     | 1.83           |
| 2017/01/26 06:27 | 3.98       | 239.17     | 2.04           |
| 2017/01/26 06:42 | 4.32       | 267.57     | 2.04           |
| 2017/01/26 06:57 | 4.65       | 296.67     | 2.04           |
| 2017/01/26 07:12 | 5.18       | 343.89     | 2.04           |
| 2017/01/26 07:27 | 5.55       | 430.21     | 2.32           |
| 2017/01/26 07:42 | 5.91       | 468.26     | 2.32           |
| 2017/01/26 07:57 | 6.43       | 512.15     | 2.27           |
| 2017/01/26 08:12 | 6.70       | 492.71     | 2.07           |
| 2017/01/26 08:27 | 6.70       | 492.71     | 2.07           |
| 2017/01/26 08:42 | 6.70       | 541.39     | 2.27           |
| 2017/01/26 08:57 | 6.70       | 582.15     | 2.44           |
| 2017/01/26 09:12 | 6.62       | 546.18     | 2.33           |
| 2017/01/26 09:27 | 6.58       | 541.73     | 2.33           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 09:42 | 6.54       | 557.98     | 2.42           |
| 2017/01/26 09:57 | 6.44       | 552.22     | 2.44           |
| 2017/01/26 10:12 | 6.43       | 584.03     | 2.59           |
| 2017/01/26 10:27 | 6.40       | 580.69     | 2.59           |
| 2017/01/26 10:42 | 6.29       | 530.00     | 2.42           |
| 2017/01/26 10:57 | 6.29       | 567.43     | 2.59           |
| 2017/01/26 11:12 | 6.25       | 532.64     | 2.45           |
| 2017/01/26 11:27 | 6.14       | 553.40     | 2.61           |
| 2017/01/26 11:42 | 6.12       | 518.47     | 2.45           |
| 2017/01/26 11:57 | 6.12       | 493.68     | 2.34           |
| 2017/01/26 12:12 | 6.04       | 484.72     | 2.34           |
| 2017/01/26 12:27 | 6.00       | 420.35     | 2.04           |
| 2017/01/26 12:42 | 5.86       | 407.36     | 2.04           |
| 2017/01/26 12:57 | 5.82       | 403.47     | 2.04           |
| 2017/01/26 13:12 | 5.41       | 335.62     | 1.87           |
| 2017/01/26 13:27 | 5.39       | 333.33     | 1.87           |
| 2017/01/26 13:42 | 5.39       | 327.85     | 1.84           |
| 2017/01/26 13:57 | 5.37       | 300.76     | 1.70           |
| 2017/01/26 14:12 | 5.30       | 320.97     | 1.84           |
| 2017/01/26 14:27 | 5.29       | 319.86     | 1.84           |
| 2017/01/26 14:42 | 5.26       | 317.57     | 1.84           |
| 2017/01/26 14:57 | 5.26       | 327.01     | 1.90           |
| 2017/01/26 15:12 | 5.26       | 327.01     | 1.90           |
| 2017/01/26 15:27 | 5.26       | 359.37     | 2.09           |
| 2017/01/26 15:42 | 5.26       | 359.37     | 2.09           |
| 2017/01/26 15:57 | 5.18       | 377.08     | 2.24           |
| 2017/01/26 16:12 | 5.16       | 375.69     | 2.24           |
| 2017/01/26 16:27 | 5.34       | 393.75     | 2.24           |
| 2017/01/26 16:42 | 5.34       | 393.75     | 2.24           |
| 2017/01/26 16:57 | 5.19       | 378.75     | 2.24           |
| 2017/01/26 17:12 | 5.19       | 378.75     | 2.24           |
| 2017/01/26 17:27 | 5.34       | 394.51     | 2.24           |
| 2017/01/26 17:42 | 5.41       | 426.11     | 2.38           |
| 2017/01/26 17:57 | 5.58       | 443.96     | 2.38           |
| 2017/01/26 18:12 | 5.86       | 445.97     | 2.24           |
| 2017/01/26 18:27 | 5.76       | 399.23     | 2.05           |
| 2017/01/26 18:42 | 5.84       | 407.01     | 2.05           |
| 2017/01/26 18:57 | 5.86       | 420.48     | 2.11           |
| 2017/01/26 19:12 | 5.89       | 423.12     | 2.11           |
| 2017/01/26 19:27 | 5.91       | 425.83     | 2.11           |
| 2017/01/26 19:42 | 6.00       | 433.82     | 2.11           |
| 2017/01/26 19:57 | 6.11       | 444.58     | 2.11           |
| 2017/01/26 20:12 | 6.11       | 477.71     | 2.27           |
| 2017/01/26 20:27 | 6.11       | 476.73     | 2.26           |
| 2017/01/26 20:42 | 6.22       | 489.30     | 2.27           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 20:57 | 6.11       | 477.71     | 2.27           |
| 2017/01/26 21:12 | 6.11       | 476.73     | 2.26           |
| 2017/01/26 21:27 | 6.05       | 471.94     | 2.27           |
| 2017/01/26 21:42 | 6.05       | 471.94     | 2.27           |
| 2017/01/26 21:57 | 5.98       | 463.82     | 2.26           |
| 2017/01/26 22:12 | 5.89       | 453.40     | 2.26           |
| 2017/01/26 22:27 | 5.68       | 406.94     | 2.13           |
| 2017/01/26 22:42 | 5.40       | 362.78     | 2.03           |
| 2017/01/26 22:57 | 5.37       | 377.57     | 2.13           |
| 2017/01/26 23:12 | 5.02       | 338.96     | 2.10           |
| 2017/01/26 23:27 | 5.00       | 326.39     | 2.03           |
| 2017/01/26 23:42 | 4.94       | 312.99     | 1.98           |
| 2017/01/26 23:57 | 4.59       | 290.69     | 2.03           |
| 2017/01/27 00:12 | 4.55       | 279.51     | 1.98           |
| 2017/01/27 00:27 | 4.32       | 259.58     | 1.98           |
| 2017/01/27 00:42 | 4.23       | 252.01     | 1.97           |
| 2017/01/27 00:57 | 4.16       | 245.35     | 1.97           |
| 2017/01/27 01:12 | 3.89       | 203.33     | 1.80           |
| 2017/01/27 01:27 | 3.66       | 166.46     | 1.60           |
| 2017/01/27 01:42 | 3.58       | 135.62     | 1.34           |
| 2017/01/27 01:57 | 3.44       | 128.19     | 1.34           |
| 2017/01/27 02:12 | 3.40       | 126.04     | 1.34           |
| 2017/01/27 02:27 | 3.37       | 138.26     | 1.49           |
| 2017/01/27 02:42 | 3.36       | 147.15     | 1.60           |
| 2017/01/27 02:57 | 3.30       | 134.24     | 1.49           |
| 2017/01/27 03:12 | 3.27       | 132.64     | 1.49           |
| 2017/01/27 03:27 | 3.27       | 132.64     | 1.49           |
| 2017/01/27 03:42 | 3.27       | 120.69     | 1.36           |
| 2017/01/27 03:57 | 3.27       | 115.00     | 1.29           |
| 2017/01/27 04:12 | 3.27       | 107.43     | 1.21           |
| 2017/01/27 04:27 | 3.29       | 105.21     | 1.18           |
| 2017/01/27 04:42 | 3.32       | 107.01     | 1.18           |
| 2017/01/27 04:57 | 3.33       | 110.00     | 1.21           |
| 2017/01/27 05:12 | 3.34       | 108.82     | 1.19           |
| 2017/01/27 05:27 | 3.46       | 114.03     | 1.19           |
| 2017/01/27 05:42 | 3.46       | 114.03     | 1.19           |
| 2017/01/27 05:57 | 3.50       | 143.82     | 1.47           |
| 2017/01/27 06:12 | 3.61       | 180.83     | 1.77           |
| 2017/01/27 06:27 | 4.12       | 240.97     | 1.96           |
| 2017/01/27 06:42 | 4.50       | 272.01     | 1.96           |
| 2017/01/27 06:57 | 5.09       | 346.67     | 2.10           |
| 2017/01/27 07:12 | 5.33       | 375.21     | 2.14           |
| 2017/01/27 07:27 | 5.57       | 397.92     | 2.14           |
| 2017/01/27 07:42 | 5.90       | 430.28     | 2.14           |
| 2017/01/27 07:57 | 6.07       | 446.60     | 2.14           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 08:12 | 6.68       | 507.01     | 2.14           |
| 2017/01/27 08:27 | 6.68       | 517.50     | 2.18           |
| 2017/01/27 08:42 | 6.68       | 561.25     | 2.37           |
| 2017/01/27 08:57 | 6.68       | 561.25     | 2.37           |
| 2017/01/27 09:12 | 6.76       | 584.03     | 2.42           |
| 2017/01/27 09:27 | 6.76       | 593.26     | 2.46           |
| 2017/01/27 09:42 | 6.68       | 583.68     | 2.46           |
| 2017/01/27 09:57 | 6.66       | 573.05     | 2.42           |
| 2017/01/27 10:12 | 6.66       | 573.05     | 2.42           |
| 2017/01/27 10:27 | 6.64       | 541.60     | 2.30           |
| 2017/01/27 10:42 | 6.52       | 529.72     | 2.30           |
| 2017/01/27 10:57 | 6.43       | 512.50     | 2.27           |
| 2017/01/27 11:12 | 6.19       | 482.50     | 2.25           |
| 2017/01/27 11:27 | 6.16       | 479.58     | 2.25           |
| 2017/01/27 11:42 | 6.16       | 466.60     | 2.19           |
| 2017/01/27 11:57 | 6.15       | 410.07     | 1.93           |
| 2017/01/27 12:12 | 6.15       | 410.07     | 1.93           |
| 2017/01/27 12:27 | 6.15       | 465.21     | 2.19           |
| 2017/01/27 12:42 | 6.09       | 483.96     | 2.30           |
| 2017/01/27 12:57 | 6.07       | 497.29     | 2.38           |
| 2017/01/27 13:12 | 6.07       | 506.80     | 2.43           |
| 2017/01/27 13:27 | 6.02       | 555.21     | 2.68           |
| 2017/01/27 13:42 | 5.98       | 550.07     | 2.68           |
| 2017/01/27 13:57 | 5.93       | 543.26     | 2.68           |
| 2017/01/27 14:12 | 5.52       | 447.01     | 2.43           |
| 2017/01/27 14:27 | 5.51       | 410.76     | 2.24           |
| 2017/01/27 14:42 | 5.51       | 410.76     | 2.24           |
| 2017/01/27 14:57 | 5.51       | 397.85     | 2.17           |
| 2017/01/27 15:12 | 5.51       | 346.87     | 1.89           |
| 2017/01/27 15:27 | 5.69       | 415.55     | 2.17           |
| 2017/01/27 15:42 | 5.70       | 403.12     | 2.10           |
| 2017/01/27 15:57 | 5.76       | 408.47     | 2.10           |
| 2017/01/27 16:12 | 5.76       | 408.47     | 2.10           |
| 2017/01/27 16:27 | 5.76       | 408.47     | 2.10           |
| 2017/01/27 16:42 | 5.89       | 420.35     | 2.10           |
| 2017/01/27 16:57 | 5.90       | 422.01     | 2.10           |
| 2017/01/27 17:12 | 5.90       | 421.73     | 2.10           |
| 2017/01/27 17:27 | 5.91       | 396.87     | 1.97           |
| 2017/01/27 17:42 | 5.91       | 396.87     | 1.97           |
| 2017/01/27 17:57 | 5.91       | 396.87     | 1.97           |
| 2017/01/27 18:12 | 5.91       | 347.92     | 1.72           |
| 2017/01/27 18:27 | 5.79       | 370.69     | 1.89           |
| 2017/01/27 18:42 | 5.79       | 338.05     | 1.72           |
| 2017/01/27 18:57 | 5.80       | 339.17     | 1.72           |
| 2017/01/27 19:12 | 5.80       | 371.87     | 1.89           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 19:27 | 5.84       | 375.48     | 1.89           |
| 2017/01/27 19:42 | 5.84       | 375.48     | 1.89           |
| 2017/01/27 19:57 | 5.80       | 395.62     | 2.01           |
| 2017/01/27 20:12 | 5.82       | 431.80     | 2.19           |
| 2017/01/27 20:27 | 5.82       | 431.80     | 2.19           |
| 2017/01/27 20:42 | 5.76       | 412.29     | 2.12           |
| 2017/01/27 20:57 | 5.70       | 420.76     | 2.19           |
| 2017/01/27 21:12 | 5.69       | 405.62     | 2.12           |
| 2017/01/27 21:27 | 5.59       | 409.72     | 2.19           |
| 2017/01/27 21:42 | 5.58       | 395.00     | 2.12           |
| 2017/01/27 21:57 | 5.54       | 390.97     | 2.12           |
| 2017/01/27 22:12 | 5.52       | 389.65     | 2.12           |
| 2017/01/27 22:27 | 5.47       | 367.22     | 2.02           |
| 2017/01/27 22:42 | 5.33       | 354.58     | 2.02           |
| 2017/01/27 22:57 | 5.07       | 330.83     | 2.02           |
| 2017/01/27 23:12 | 4.94       | 315.83     | 2.00           |
| 2017/01/27 23:27 | 4.87       | 313.54     | 2.02           |
| 2017/01/27 23:42 | 4.80       | 307.43     | 2.02           |
| 2017/01/27 23:57 | 4.61       | 290.35     | 2.02           |
| 2017/01/28 00:12 | 4.57       | 283.75     | 2.00           |
| 2017/01/28 00:27 | 4.52       | 270.97     | 1.93           |
| 2017/01/28 00:42 | 4.15       | 240.21     | 1.93           |
| 2017/01/28 00:57 | 3.98       | 226.80     | 1.93           |
| 2017/01/28 01:12 | 3.93       | 190.83     | 1.66           |
| 2017/01/28 01:27 | 3.91       | 189.86     | 1.66           |
| 2017/01/28 01:42 | 3.77       | 173.47     | 1.60           |
| 2017/01/28 01:57 | 3.54       | 148.19     | 1.49           |
| 2017/01/28 02:12 | 3.46       | 144.44     | 1.51           |
| 2017/01/28 02:27 | 3.37       | 139.93     | 1.51           |
| 2017/01/28 02:42 | 3.27       | 133.89     | 1.51           |
| 2017/01/28 02:57 | 3.27       | 133.89     | 1.51           |
| 2017/01/28 03:12 | 3.27       | 131.81     | 1.48           |
| 2017/01/28 03:27 | 3.27       | 133.89     | 1.51           |
| 2017/01/28 03:42 | 3.22       | 131.04     | 1.51           |
| 2017/01/28 03:57 | 3.22       | 131.04     | 1.51           |
| 2017/01/28 04:12 | 3.07       | 123.47     | 1.53           |
| 2017/01/28 04:27 | 3.07       | 123.47     | 1.53           |
| 2017/01/28 04:42 | 3.07       | 111.87     | 1.38           |
| 2017/01/28 04:57 | 3.07       | 113.47     | 1.40           |
| 2017/01/28 05:12 | 3.07       | 113.47     | 1.40           |
| 2017/01/28 05:27 | 3.05       | 111.18     | 1.38           |
| 2017/01/28 05:42 | 3.05       | 108.96     | 1.36           |
| 2017/01/28 05:57 | 3.11       | 100.56     | 1.22           |
| 2017/01/28 06:12 | 3.18       | 96.39      | 1.13           |
| 2017/01/28 06:27 | 3.25       | 107.08     | 1.22           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 06:42 | 3.37       | 112.99     | 1.22           |
| 2017/01/28 06:57 | 3.64       | 125.69     | 1.22           |
| 2017/01/28 07:12 | 4.02       | 190.00     | 1.60           |
| 2017/01/28 07:27 | 4.04       | 223.75     | 1.87           |
| 2017/01/28 07:42 | 4.26       | 241.18     | 1.87           |
| 2017/01/28 07:57 | 4.69       | 300.55     | 2.04           |
| 2017/01/28 08:12 | 5.00       | 337.15     | 2.10           |
| 2017/01/28 08:27 | 5.47       | 370.76     | 2.04           |
| 2017/01/28 08:42 | 5.93       | 413.26     | 2.04           |
| 2017/01/28 08:57 | 6.29       | 443.12     | 2.02           |
| 2017/01/28 09:12 | 6.29       | 464.51     | 2.12           |
| 2017/01/28 09:27 | 6.41       | 535.07     | 2.38           |
| 2017/01/28 09:42 | 6.64       | 559.58     | 2.38           |
| 2017/01/28 09:57 | 6.83       | 581.04     | 2.38           |
| 2017/01/28 10:12 | 6.87       | 585.69     | 2.38           |
| 2017/01/28 10:27 | 6.90       | 524.58     | 2.12           |
| 2017/01/28 10:42 | 7.05       | 539.72     | 2.12           |
| 2017/01/28 10:57 | 7.05       | 523.82     | 2.06           |
| 2017/01/28 11:12 | 7.05       | 523.82     | 2.06           |
| 2017/01/28 11:27 | 7.11       | 529.17     | 2.06           |
| 2017/01/28 11:42 | 7.05       | 444.58     | 1.75           |
| 2017/01/28 11:57 | 7.02       | 521.11     | 2.06           |
| 2017/01/28 12:12 | 7.02       | 527.29     | 2.08           |
| 2017/01/28 12:27 | 7.00       | 618.40     | 2.46           |
| 2017/01/28 12:42 | 7.00       | 633.40     | 2.51           |
| 2017/01/28 12:57 | 6.94       | 627.22     | 2.52           |
| 2017/01/28 13:12 | 6.89       | 620.76     | 2.52           |
| 2017/01/28 13:27 | 6.79       | 609.37     | 2.52           |
| 2017/01/28 13:42 | 6.70       | 590.48     | 2.48           |
| 2017/01/28 13:57 | 6.62       | 580.90     | 2.48           |
| 2017/01/28 14:12 | 6.55       | 564.79     | 2.44           |
| 2017/01/28 14:27 | 6.55       | 536.60     | 2.32           |
| 2017/01/28 14:42 | 6.54       | 514.30     | 2.23           |
| 2017/01/28 14:57 | 6.29       | 488.54     | 2.23           |
| 2017/01/28 15:12 | 6.22       | 481.39     | 2.23           |
| 2017/01/28 15:27 | 6.22       | 450.76     | 2.09           |
| 2017/01/28 15:42 | 6.22       | 450.76     | 2.09           |
| 2017/01/28 15:57 | 6.18       | 446.80     | 2.09           |
| 2017/01/28 16:12 | 6.14       | 442.78     | 2.09           |
| 2017/01/28 16:27 | 6.14       | 442.78     | 2.09           |
| 2017/01/28 16:42 | 6.16       | 425.90     | 2.00           |
| 2017/01/28 16:57 | 6.16       | 425.90     | 2.00           |
| 2017/01/28 17:12 | 6.16       | 425.90     | 2.00           |
| 2017/01/28 17:27 | 6.16       | 425.90     | 2.00           |
| 2017/01/28 17:42 | 6.16       | 425.90     | 2.00           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 17:57 | 6.16       | 446.11     | 2.09           |
| 2017/01/28 18:12 | 6.20       | 451.39     | 2.10           |
| 2017/01/28 18:27 | 6.20       | 459.30     | 2.13           |
| 2017/01/28 18:42 | 6.20       | 459.30     | 2.13           |
| 2017/01/28 18:57 | 6.20       | 459.30     | 2.13           |
| 2017/01/28 19:12 | 6.20       | 459.30     | 2.13           |
| 2017/01/28 19:27 | 6.09       | 440.69     | 2.10           |
| 2017/01/28 19:42 | 6.08       | 439.37     | 2.10           |
| 2017/01/28 19:57 | 5.91       | 430.76     | 2.13           |
| 2017/01/28 20:12 | 5.79       | 427.57     | 2.18           |
| 2017/01/28 20:27 | 5.75       | 423.40     | 2.18           |
| 2017/01/28 20:42 | 5.70       | 413.12     | 2.15           |
| 2017/01/28 20:57 | 5.54       | 379.17     | 2.05           |
| 2017/01/28 21:12 | 5.34       | 361.25     | 2.05           |
| 2017/01/28 21:27 | 5.32       | 375.48     | 2.15           |
| 2017/01/28 21:42 | 5.23       | 330.97     | 1.93           |
| 2017/01/28 21:57 | 5.12       | 321.39     | 1.93           |
| 2017/01/28 22:12 | 5.12       | 332.29     | 2.00           |
| 2017/01/28 22:27 | 5.09       | 329.79     | 2.00           |
| 2017/01/28 22:42 | 5.08       | 331.32     | 2.02           |
| 2017/01/28 22:57 | 4.98       | 322.71     | 2.02           |
| 2017/01/28 23:12 | 4.86       | 309.03     | 2.00           |
| 2017/01/28 23:27 | 4.76       | 300.55     | 2.00           |
| 2017/01/28 23:42 | 4.72       | 291.74     | 1.97           |
| 2017/01/28 23:57 | 4.69       | 289.37     | 1.97           |
| 2017/01/29 00:12 | 4.59       | 281.11     | 1.97           |
| 2017/01/29 00:27 | 4.50       | 272.85     | 1.97           |
| 2017/01/29 00:42 | 4.39       | 282.15     | 2.10           |
| 2017/01/29 00:57 | 4.26       | 271.04     | 2.10           |
| 2017/01/29 01:12 | 4.02       | 250.28     | 2.10           |
| 2017/01/29 01:27 | 3.98       | 246.67     | 2.10           |
| 2017/01/29 01:42 | 3.90       | 201.04     | 1.77           |
| 2017/01/29 01:57 | 3.80       | 167.92     | 1.53           |
| 2017/01/29 02:12 | 3.69       | 161.04     | 1.53           |
| 2017/01/29 02:27 | 3.61       | 155.76     | 1.53           |
| 2017/01/29 02:42 | 3.47       | 140.14     | 1.45           |
| 2017/01/29 02:57 | 3.43       | 137.43     | 1.45           |
| 2017/01/29 03:12 | 3.36       | 114.72     | 1.25           |
| 2017/01/29 03:27 | 3.26       | 110.00     | 1.25           |
| 2017/01/29 03:42 | 3.25       | 109.31     | 1.25           |
| 2017/01/29 03:57 | 3.23       | 108.68     | 1.25           |
| 2017/01/29 04:12 | 3.15       | 110.62     | 1.32           |
| 2017/01/29 04:27 | 3.11       | 108.54     | 1.32           |
| 2017/01/29 04:42 | 3.11       | 108.54     | 1.32           |
| 2017/01/29 04:57 | 3.14       | 112.43     | 1.35           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 05:12 | 3.15       | 110.62     | 1.32           |
| 2017/01/29 05:27 | 3.15       | 108.19     | 1.29           |
| 2017/01/29 05:42 | 3.15       | 108.19     | 1.29           |
| 2017/01/29 05:57 | 3.16       | 97.85      | 1.16           |
| 2017/01/29 06:12 | 3.21       | 83.82      | 0.97           |
| 2017/01/29 06:27 | 3.25       | 85.35      | 0.97           |
| 2017/01/29 06:42 | 3.40       | 91.11      | 0.97           |
| 2017/01/29 06:57 | 3.51       | 126.18     | 1.29           |
| 2017/01/29 07:12 | 3.61       | 137.43     | 1.35           |
| 2017/01/29 07:27 | 3.77       | 146.46     | 1.35           |
| 2017/01/29 07:42 | 4.27       | 174.37     | 1.35           |
| 2017/01/29 07:57 | 4.27       | 223.33     | 1.73           |
| 2017/01/29 08:12 | 4.54       | 257.29     | 1.83           |
| 2017/01/29 08:27 | 5.22       | 319.86     | 1.88           |
| 2017/01/29 08:42 | 5.22       | 357.29     | 2.10           |
| 2017/01/29 08:57 | 5.82       | 413.75     | 2.10           |
| 2017/01/29 09:12 | 5.84       | 438.82     | 2.21           |
| 2017/01/29 09:27 | 6.40       | 495.21     | 2.21           |
| 2017/01/29 09:42 | 6.59       | 566.32     | 2.43           |
| 2017/01/29 09:57 | 6.64       | 519.37     | 2.21           |
| 2017/01/29 10:12 | 6.91       | 547.91     | 2.21           |
| 2017/01/29 10:27 | 6.97       | 553.68     | 2.21           |
| 2017/01/29 10:42 | 6.97       | 553.68     | 2.21           |
| 2017/01/29 10:57 | 6.97       | 536.46     | 2.14           |
| 2017/01/29 11:12 | 6.97       | 536.46     | 2.14           |
| 2017/01/29 11:27 | 6.97       | 536.46     | 2.14           |
| 2017/01/29 11:42 | 6.97       | 556.32     | 2.22           |
| 2017/01/29 11:57 | 6.98       | 557.78     | 2.22           |
| 2017/01/29 12:12 | 6.98       | 576.94     | 2.30           |
| 2017/01/29 12:27 | 6.98       | 579.65     | 2.31           |
| 2017/01/29 12:42 | 6.98       | 579.65     | 2.31           |
| 2017/01/29 12:57 | 6.79       | 556.11     | 2.30           |
| 2017/01/29 13:12 | 6.69       | 545.76     | 2.30           |
| 2017/01/29 13:27 | 6.64       | 539.79     | 2.30           |
| 2017/01/29 13:42 | 6.64       | 542.36     | 2.31           |
| 2017/01/29 13:57 | 6.62       | 529.37     | 2.26           |
| 2017/01/29 14:12 | 6.58       | 525.07     | 2.26           |
| 2017/01/29 14:27 | 6.55       | 522.15     | 2.26           |
| 2017/01/29 14:42 | 6.27       | 467.43     | 2.14           |
| 2017/01/29 14:57 | 6.23       | 463.33     | 2.14           |
| 2017/01/29 15:12 | 6.15       | 455.14     | 2.14           |
| 2017/01/29 15:27 | 6.15       | 455.14     | 2.14           |
| 2017/01/29 15:42 | 6.12       | 452.43     | 2.14           |
| 2017/01/29 15:57 | 6.15       | 438.61     | 2.06           |
| 2017/01/29 16:12 | 6.12       | 435.97     | 2.06           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 16:27 | 6.09       | 433.33     | 2.06           |
| 2017/01/29 16:42 | 6.12       | 412.71     | 1.95           |
| 2017/01/29 16:57 | 6.14       | 406.25     | 1.92           |
| 2017/01/29 17:12 | 6.14       | 406.25     | 1.92           |
| 2017/01/29 17:27 | 6.14       | 413.96     | 1.95           |
| 2017/01/29 17:42 | 6.14       | 478.05     | 2.26           |
| 2017/01/29 17:57 | 6.23       | 433.96     | 2.01           |
| 2017/01/29 18:12 | 6.27       | 471.80     | 2.16           |
| 2017/01/29 18:27 | 6.41       | 503.47     | 2.24           |
| 2017/01/29 18:42 | 6.47       | 512.71     | 2.26           |
| 2017/01/29 18:57 | 6.47       | 512.71     | 2.26           |
| 2017/01/29 19:12 | 6.47       | 536.32     | 2.36           |
| 2017/01/29 19:27 | 6.47       | 509.23     | 2.24           |
| 2017/01/29 19:42 | 6.47       | 509.23     | 2.24           |
| 2017/01/29 19:57 | 6.33       | 494.86     | 2.24           |
| 2017/01/29 20:12 | 6.20       | 549.93     | 2.56           |
| 2017/01/29 20:27 | 6.20       | 549.93     | 2.56           |
| 2017/01/29 20:42 | 6.19       | 479.86     | 2.24           |
| 2017/01/29 20:57 | 6.19       | 446.46     | 2.08           |
| 2017/01/29 21:12 | 6.19       | 479.86     | 2.24           |
| 2017/01/29 21:27 | 6.19       | 446.46     | 2.08           |
| 2017/01/29 21:42 | 6.15       | 442.50     | 2.08           |
| 2017/01/29 21:57 | 6.04       | 431.87     | 2.08           |
| 2017/01/29 22:12 | 6.01       | 408.12     | 1.98           |
| 2017/01/29 22:27 | 5.48       | 360.69     | 1.98           |
| 2017/01/29 22:42 | 5.40       | 345.07     | 1.93           |
| 2017/01/29 22:57 | 5.23       | 330.69     | 1.93           |
| 2017/01/29 23:12 | 4.96       | 315.14     | 1.99           |
| 2017/01/29 23:27 | 4.96       | 330.90     | 2.08           |
| 2017/01/29 23:42 | 4.82       | 303.05     | 1.99           |
| 2017/01/29 23:57 | 4.69       | 292.29     | 1.99           |
| 2017/01/30 00:12 | 4.34       | 257.08     | 1.94           |
| 2017/01/30 00:27 | 4.04       | 232.15     | 1.94           |
| 2017/01/30 00:42 | 3.87       | 206.94     | 1.84           |
| 2017/01/30 00:57 | 3.77       | 168.68     | 1.55           |
| 2017/01/30 01:12 | 3.50       | 148.54     | 1.52           |
| 2017/01/30 01:27 | 3.33       | 135.97     | 1.49           |
| 2017/01/30 01:42 | 3.33       | 135.42     | 1.49           |
| 2017/01/30 01:57 | 3.23       | 129.72     | 1.49           |
| 2017/01/30 02:12 | 3.18       | 122.15     | 1.43           |
| 2017/01/30 02:27 | 3.01       | 113.06     | 1.43           |
| 2017/01/30 02:42 | 3.00       | 112.36     | 1.43           |
| 2017/01/30 02:57 | 3.00       | 104.58     | 1.34           |
| 2017/01/30 03:12 | 3.00       | 104.58     | 1.34           |
| 2017/01/30 03:27 | 2.98       | 103.75     | 1.33           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 03:42 | 2.97       | 103.06     | 1.33           |
| 2017/01/30 03:57 | 2.97       | 103.19     | 1.34           |
| 2017/01/30 04:12 | 2.90       | 98.26      | 1.32           |
| 2017/01/30 04:27 | 2.90       | 84.44      | 1.13           |
| 2017/01/30 04:42 | 2.90       | 84.44      | 1.13           |
| 2017/01/30 04:57 | 2.90       | 84.44      | 1.13           |
| 2017/01/30 05:12 | 3.02       | 96.74      | 1.22           |
| 2017/01/30 05:27 | 3.05       | 112.78     | 1.40           |
| 2017/01/30 05:42 | 3.25       | 123.12     | 1.40           |
| 2017/01/30 05:57 | 3.30       | 128.33     | 1.43           |
| 2017/01/30 06:12 | 3.58       | 161.18     | 1.60           |
| 2017/01/30 06:27 | 3.84       | 181.87     | 1.63           |
| 2017/01/30 06:42 | 4.08       | 230.35     | 1.90           |
| 2017/01/30 06:57 | 4.50       | 265.69     | 1.91           |
| 2017/01/30 07:12 | 5.12       | 325.69     | 1.96           |
| 2017/01/30 07:27 | 5.62       | 369.65     | 1.96           |
| 2017/01/30 07:42 | 6.32       | 504.86     | 2.29           |
| 2017/01/30 07:57 | 6.58       | 532.85     | 2.29           |
| 2017/01/30 08:12 | 6.75       | 590.90     | 2.46           |
| 2017/01/30 08:27 | 6.94       | 613.19     | 2.46           |
| 2017/01/30 08:42 | 6.94       | 613.19     | 2.46           |
| 2017/01/30 08:57 | 6.94       | 614.30     | 2.46           |
| 2017/01/30 09:12 | 6.94       | 618.47     | 2.48           |
| 2017/01/30 09:27 | 6.76       | 650.90     | 2.70           |
| 2017/01/30 09:42 | 6.75       | 666.04     | 2.77           |
| 2017/01/30 09:57 | 6.66       | 638.75     | 2.70           |
| 2017/01/30 10:12 | 6.62       | 633.47     | 2.70           |
| 2017/01/30 10:27 | 6.50       | 617.85     | 2.70           |
| 2017/01/30 10:42 | 6.40       | 605.69     | 2.70           |
| 2017/01/30 10:57 | 6.34       | 547.01     | 2.47           |
| 2017/01/30 11:12 | 6.32       | 543.82     | 2.47           |
| 2017/01/30 11:27 | 6.32       | 543.82     | 2.47           |
| 2017/01/30 11:42 | 6.23       | 543.26     | 2.51           |
| 2017/01/30 11:57 | 6.20       | 540.07     | 2.51           |
| 2017/01/30 12:12 | 6.16       | 535.28     | 2.51           |
| 2017/01/30 12:27 | 6.08       | 525.62     | 2.51           |
| 2017/01/30 12:42 | 5.97       | 512.85     | 2.51           |
| 2017/01/30 12:57 | 5.77       | 474.17     | 2.43           |
| 2017/01/30 13:12 | 5.77       | 436.04     | 2.23           |
| 2017/01/30 13:27 | 5.77       | 436.04     | 2.23           |
| 2017/01/30 13:42 | 5.77       | 451.53     | 2.31           |
| 2017/01/30 13:57 | 5.73       | 431.80     | 2.23           |
| 2017/01/30 14:12 | 5.73       | 427.08     | 2.21           |
| 2017/01/30 14:27 | 5.68       | 401.11     | 2.10           |
| 2017/01/30 14:42 | 5.68       | 331.39     | 1.73           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 14:57 | 5.57       | 390.55     | 2.10           |
| 2017/01/30 15:12 | 5.44       | 378.68     | 2.10           |
| 2017/01/30 15:27 | 5.23       | 339.30     | 1.98           |
| 2017/01/30 15:42 | 5.23       | 344.24     | 2.01           |
| 2017/01/30 15:57 | 5.23       | 339.30     | 1.98           |
| 2017/01/30 16:12 | 5.23       | 339.30     | 1.98           |
| 2017/01/30 16:27 | 5.23       | 344.24     | 2.01           |
| 2017/01/30 16:42 | 5.16       | 333.19     | 1.98           |
| 2017/01/30 16:57 | 5.23       | 339.30     | 1.98           |
| 2017/01/30 17:12 | 5.33       | 352.99     | 2.01           |
| 2017/01/30 17:27 | 5.33       | 382.43     | 2.18           |
| 2017/01/30 17:42 | 5.37       | 386.53     | 2.18           |
| 2017/01/30 17:57 | 5.40       | 395.48     | 2.22           |
| 2017/01/30 18:12 | 5.57       | 424.30     | 2.28           |
| 2017/01/30 18:27 | 5.68       | 435.76     | 2.28           |
| 2017/01/30 18:42 | 5.79       | 434.44     | 2.22           |
| 2017/01/30 18:57 | 6.05       | 461.11     | 2.22           |
| 2017/01/30 19:12 | 6.09       | 441.67     | 2.10           |
| 2017/01/30 19:27 | 6.22       | 478.12     | 2.22           |
| 2017/01/30 19:42 | 6.22       | 453.75     | 2.10           |
| 2017/01/30 19:57 | 6.29       | 460.48     | 2.10           |
| 2017/01/30 20:12 | 6.29       | 560.07     | 2.56           |
| 2017/01/30 20:27 | 6.39       | 571.53     | 2.56           |
| 2017/01/30 20:42 | 6.39       | 476.39     | 2.13           |
| 2017/01/30 20:57 | 6.27       | 470.14     | 2.15           |
| 2017/01/30 21:12 | 6.27       | 465.48     | 2.13           |
| 2017/01/30 21:27 | 6.26       | 468.75     | 2.15           |
| 2017/01/30 21:42 | 6.15       | 457.71     | 2.15           |
| 2017/01/30 21:57 | 6.05       | 443.68     | 2.13           |
| 2017/01/30 22:12 | 6.02       | 375.00     | 1.81           |
| 2017/01/30 22:27 | 5.64       | 342.85     | 1.81           |
| 2017/01/30 22:42 | 5.33       | 317.92     | 1.81           |
| 2017/01/30 22:57 | 5.29       | 345.00     | 1.99           |
| 2017/01/30 23:12 | 5.16       | 333.96     | 1.99           |
| 2017/01/30 23:27 | 4.77       | 299.93     | 1.99           |
| 2017/01/30 23:42 | 4.76       | 298.68     | 1.99           |
| 2017/01/30 23:57 | 4.55       | 280.76     | 1.99           |
| 2017/01/31 00:12 | 4.51       | 277.22     | 1.99           |
| 2017/01/31 00:27 | 4.46       | 263.54     | 1.92           |
| 2017/01/31 00:42 | 4.04       | 124.93     | 1.05           |
| 2017/01/31 00:57 | 3.84       | 116.53     | 1.05           |
| 2017/01/31 01:12 | 3.65       | 108.33     | 1.05           |
| 2017/01/31 01:27 | 3.59       | 106.04     | 1.05           |
| 2017/01/31 01:42 | 3.55       | 108.26     | 1.08           |
| 2017/01/31 01:57 | 3.33       | 157.36     | 1.73           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 02:12 | 3.16       | 146.25     | 1.73           |
| 2017/01/31 02:27 | 3.16       | 146.53     | 1.73           |
| 2017/01/31 02:42 | 3.16       | 146.53     | 1.73           |
| 2017/01/31 02:57 | 3.15       | 145.35     | 1.73           |
| 2017/01/31 03:12 | 3.15       | 145.35     | 1.73           |
| 2017/01/31 03:27 | 3.15       | 147.01     | 1.75           |
| 2017/01/31 03:42 | 3.15       | 147.01     | 1.75           |
| 2017/01/31 03:57 | 3.09       | 143.33     | 1.75           |
| 2017/01/31 04:12 | 3.08       | 132.50     | 1.63           |
| 2017/01/31 04:27 | 3.08       | 132.50     | 1.63           |
| 2017/01/31 04:42 | 3.08       | 132.50     | 1.63           |
| 2017/01/31 04:57 | 3.08       | 132.50     | 1.63           |
| 2017/01/31 05:12 | 3.14       | 135.90     | 1.63           |
| 2017/01/31 05:27 | 3.18       | 133.06     | 1.56           |
| 2017/01/31 05:42 | 3.27       | 138.89     | 1.56           |
| 2017/01/31 05:57 | 3.39       | 152.29     | 1.63           |
| 2017/01/31 06:12 | 3.61       | 167.92     | 1.65           |
| 2017/01/31 06:27 | 4.08       | 202.99     | 1.67           |
| 2017/01/31 06:42 | 4.14       | 206.80     | 1.67           |
| 2017/01/31 06:57 | 4.73       | 263.33     | 1.77           |
| 2017/01/31 07:12 | 5.04       | 319.72     | 1.97           |
| 2017/01/31 07:27 | 5.69       | 443.96     | 2.32           |
| 2017/01/31 07:42 | 6.20       | 498.33     | 2.32           |
| 2017/01/31 07:57 | 6.68       | 556.18     | 2.35           |
| 2017/01/31 08:12 | 6.68       | 606.11     | 2.56           |
| 2017/01/31 08:27 | 6.86       | 627.57     | 2.56           |
| 2017/01/31 08:42 | 6.86       | 627.57     | 2.56           |
| 2017/01/31 08:57 | 6.86       | 627.57     | 2.56           |
| 2017/01/31 09:12 | 6.73       | 514.72     | 2.15           |
| 2017/01/31 09:27 | 6.62       | 540.48     | 2.31           |
| 2017/01/31 09:42 | 6.59       | 500.90     | 2.15           |
| 2017/01/31 09:57 | 6.45       | 487.08     | 2.15           |
| 2017/01/31 10:12 | 6.41       | 482.92     | 2.15           |
| 2017/01/31 10:27 | 6.41       | 482.92     | 2.15           |
| 2017/01/31 10:42 | 6.34       | 476.04     | 2.15           |
| 2017/01/31 10:57 | 6.30       | 433.33     | 1.97           |
| 2017/01/31 11:12 | 6.25       | 428.26     | 1.97           |
| 2017/01/31 11:27 | 6.14       | 508.12     | 2.40           |
| 2017/01/31 11:42 | 6.05       | 490.97     | 2.36           |
| 2017/01/31 11:57 | 6.01       | 486.46     | 2.36           |
| 2017/01/31 12:12 | 6.01       | 460.69     | 2.23           |
| 2017/01/31 12:27 | 6.00       | 459.23     | 2.23           |
| 2017/01/31 12:42 | 6.01       | 460.69     | 2.23           |
| 2017/01/31 12:57 | 6.01       | 416.32     | 2.02           |
| 2017/01/31 13:12 | 5.82       | 389.93     | 1.98           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 13:27 | 5.57       | 309.65     | 1.66           |
| 2017/01/31 13:42 | 5.48       | 336.74     | 1.85           |
| 2017/01/31 13:57 | 5.34       | 295.97     | 1.68           |
| 2017/01/31 14:12 | 5.34       | 295.97     | 1.68           |
| 2017/01/31 14:27 | 5.34       | 325.21     | 1.85           |
| 2017/01/31 14:42 | 5.34       | 325.21     | 1.85           |
| 2017/01/31 14:57 | 5.34       | 325.21     | 1.85           |
| 2017/01/31 15:12 | 5.27       | 347.43     | 2.01           |
| 2017/01/31 15:27 | 5.27       | 347.43     | 2.01           |
| 2017/01/31 15:42 | 5.25       | 345.00     | 2.01           |
| 2017/01/31 15:57 | 5.11       | 332.57     | 2.01           |
| 2017/01/31 16:12 | 5.11       | 305.55     | 1.85           |
| 2017/01/31 16:27 | 5.11       | 305.55     | 1.85           |
| 2017/01/31 16:42 | 5.11       | 266.39     | 1.61           |
| 2017/01/31 16:57 | 5.08       | 264.44     | 1.61           |
| 2017/01/31 17:12 | 5.11       | 285.07     | 1.72           |
| 2017/01/31 17:27 | 5.14       | 272.99     | 1.64           |
| 2017/01/31 17:42 | 5.27       | 283.05     | 1.64           |
| 2017/01/31 17:57 | 5.41       | 308.54     | 1.72           |
| 2017/01/31 18:12 | 5.41       | 308.54     | 1.72           |
| 2017/01/31 18:27 | 5.75       | 357.64     | 1.84           |
| 2017/01/31 18:42 | 5.76       | 385.28     | 1.98           |
| 2017/01/31 18:57 | 5.76       | 412.29     | 2.12           |
| 2017/01/31 19:12 | 6.08       | 443.19     | 2.12           |
| 2017/01/31 19:27 | 6.16       | 451.32     | 2.12           |
| 2017/01/31 19:42 | 6.34       | 468.89     | 2.12           |
| 2017/01/31 19:57 | 6.34       | 544.65     | 2.46           |
| 2017/01/31 20:12 | 6.43       | 477.08     | 2.12           |
| 2017/01/31 20:27 | 6.43       | 603.61     | 2.68           |
| 2017/01/31 20:42 | 6.43       | 603.61     | 2.68           |
| 2017/01/31 20:57 | 6.36       | 595.07     | 2.68           |
| 2017/01/31 21:12 | 6.36       | 595.07     | 2.68           |
| 2017/01/31 21:27 | 6.33       | 555.55     | 2.51           |
| 2017/01/31 21:42 | 6.30       | 454.79     | 2.07           |
| 2017/01/31 21:57 | 6.30       | 552.29     | 2.51           |
| 2017/01/31 22:12 | 6.30       | 530.21     | 2.41           |
| 2017/01/31 22:27 | 6.08       | 432.98     | 2.07           |
| 2017/01/31 22:42 | 6.00       | 425.07     | 2.07           |
| 2017/01/31 22:57 | 5.95       | 421.11     | 2.07           |
| 2017/01/31 23:12 | 5.50       | 363.89     | 1.99           |
| 2017/01/31 23:27 | 5.27       | 344.03     | 1.99           |
| 2017/01/31 23:42 | 5.22       | 292.85     | 1.72           |
| 2017/01/31 23:57 | 4.86       | 265.42     | 1.72           |
| 2017/02/01 00:12 | 4.76       | 258.12     | 1.72           |
| 2017/02/01 00:27 | 4.32       | 250.97     | 1.91           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 00:42 | 3.98       | 224.30     | 1.91           |
| 2017/02/01 00:57 | 3.97       | 223.19     | 1.91           |
| 2017/02/01 01:12 | 3.65       | 198.33     | 1.91           |
| 2017/02/01 01:27 | 3.65       | 198.33     | 1.91           |
| 2017/02/01 01:42 | 3.52       | 167.99     | 1.70           |
| 2017/02/01 01:57 | 3.48       | 165.21     | 1.70           |
| 2017/02/01 02:12 | 3.32       | 154.10     | 1.70           |
| 2017/02/01 02:27 | 3.26       | 150.42     | 1.70           |
| 2017/02/01 02:42 | 3.25       | 149.51     | 1.70           |
| 2017/02/01 02:57 | 3.19       | 144.44     | 1.69           |
| 2017/02/01 03:12 | 3.18       | 143.54     | 1.69           |
| 2017/02/01 03:27 | 3.15       | 141.81     | 1.69           |
| 2017/02/01 03:42 | 3.15       | 141.81     | 1.69           |
| 2017/02/01 03:57 | 3.15       | 138.96     | 1.65           |
| 2017/02/01 04:12 | 3.07       | 126.81     | 1.57           |
| 2017/02/01 04:27 | 3.05       | 125.97     | 1.57           |
| 2017/02/01 04:42 | 3.05       | 125.97     | 1.57           |
| 2017/02/01 04:57 | 3.05       | 125.28     | 1.56           |
| 2017/02/01 05:12 | 3.12       | 130.14     | 1.57           |
| 2017/02/01 05:27 | 3.12       | 130.14     | 1.57           |
| 2017/02/01 05:42 | 3.14       | 141.81     | 1.70           |
| 2017/02/01 05:57 | 3.27       | 154.44     | 1.74           |
| 2017/02/01 06:12 | 3.76       | 187.92     | 1.74           |
| 2017/02/01 06:27 | 3.94       | 207.08     | 1.79           |
| 2017/02/01 06:42 | 4.43       | 253.96     | 1.87           |
| 2017/02/01 06:57 | 4.66       | 281.39     | 1.93           |
| 2017/02/01 07:12 | 5.18       | 347.01     | 2.06           |
| 2017/02/01 07:27 | 5.52       | 416.94     | 2.26           |
| 2017/02/01 07:42 | 6.33       | 454.72     | 2.06           |
| 2017/02/01 07:57 | 7.04       | 522.50     | 2.06           |
| 2017/02/01 08:12 | 7.04       | 522.50     | 2.06           |
| 2017/02/01 08:27 | 7.04       | 615.41     | 2.42           |
| 2017/02/01 08:42 | 7.04       | 555.00     | 2.19           |
| 2017/02/01 08:57 | 6.93       | 541.80     | 2.18           |
| 2017/02/01 09:12 | 6.87       | 494.10     | 2.01           |
| 2017/02/01 09:27 | 6.82       | 530.48     | 2.18           |
| 2017/02/01 09:42 | 6.50       | 499.93     | 2.19           |
| 2017/02/01 09:57 | 6.50       | 499.93     | 2.19           |
| 2017/02/01 10:12 | 6.50       | 499.93     | 2.19           |
| 2017/02/01 10:27 | 6.45       | 556.60     | 2.46           |
| 2017/02/01 10:42 | 6.44       | 577.08     | 2.55           |
| 2017/02/01 10:57 | 6.40       | 572.15     | 2.55           |
| 2017/02/01 11:12 | 6.37       | 547.08     | 2.46           |
| 2017/02/01 11:27 | 6.34       | 558.47     | 2.52           |
| 2017/02/01 11:42 | 6.19       | 547.64     | 2.55           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 11:57 | 6.11       | 531.11     | 2.52           |
| 2017/02/01 12:12 | 6.11       | 454.58     | 2.16           |
| 2017/02/01 12:27 | 5.75       | 418.96     | 2.16           |
| 2017/02/01 12:42 | 5.73       | 417.64     | 2.16           |
| 2017/02/01 12:57 | 5.73       | 417.29     | 2.16           |
| 2017/02/01 13:12 | 5.73       | 417.29     | 2.16           |
| 2017/02/01 13:27 | 5.62       | 406.46     | 2.16           |
| 2017/02/01 13:42 | 5.58       | 402.36     | 2.16           |
| 2017/02/01 13:57 | 5.51       | 395.62     | 2.16           |
| 2017/02/01 14:12 | 5.51       | 395.62     | 2.16           |
| 2017/02/01 14:27 | 5.40       | 377.50     | 2.11           |
| 2017/02/01 14:42 | 5.40       | 430.62     | 2.41           |
| 2017/02/01 14:57 | 5.29       | 367.01     | 2.11           |
| 2017/02/01 15:12 | 5.26       | 364.37     | 2.11           |
| 2017/02/01 15:27 | 5.26       | 364.37     | 2.11           |
| 2017/02/01 15:42 | 5.26       | 359.37     | 2.09           |
| 2017/02/01 15:57 | 5.26       | 359.37     | 2.09           |
| 2017/02/01 16:12 | 5.19       | 352.92     | 2.09           |
| 2017/02/01 16:27 | 5.19       | 328.61     | 1.94           |
| 2017/02/01 16:42 | 5.34       | 341.87     | 1.94           |
| 2017/02/01 16:57 | 5.37       | 338.05     | 1.91           |
| 2017/02/01 17:12 | 5.39       | 339.24     | 1.91           |
| 2017/02/01 17:27 | 5.62       | 366.18     | 1.94           |
| 2017/02/01 17:42 | 5.62       | 359.58     | 1.91           |
| 2017/02/01 17:57 | 5.83       | 384.58     | 1.94           |
| 2017/02/01 18:12 | 5.87       | 419.03     | 2.10           |
| 2017/02/01 18:27 | 5.87       | 427.29     | 2.14           |
| 2017/02/01 18:42 | 6.01       | 457.85     | 2.22           |
| 2017/02/01 18:57 | 6.04       | 460.69     | 2.22           |
| 2017/02/01 19:12 | 6.23       | 523.12     | 2.42           |
| 2017/02/01 19:27 | 6.40       | 541.73     | 2.42           |
| 2017/02/01 19:42 | 6.40       | 497.57     | 2.22           |
| 2017/02/01 19:57 | 6.41       | 489.44     | 2.18           |
| 2017/02/01 20:12 | 6.40       | 488.05     | 2.18           |
| 2017/02/01 20:27 | 6.41       | 471.94     | 2.10           |
| 2017/02/01 20:42 | 6.41       | 463.33     | 2.06           |
| 2017/02/01 20:57 | 6.41       | 463.33     | 2.06           |
| 2017/02/01 21:12 | 6.41       | 463.33     | 2.06           |
| 2017/02/01 21:27 | 6.41       | 471.94     | 2.10           |
| 2017/02/01 21:42 | 6.32       | 550.90     | 2.50           |
| 2017/02/01 21:57 | 6.32       | 550.90     | 2.50           |
| 2017/02/01 22:12 | 6.00       | 514.17     | 2.50           |
| 2017/02/01 22:27 | 5.97       | 510.97     | 2.50           |
| 2017/02/01 22:42 | 5.97       | 475.14     | 2.33           |
| 2017/02/01 22:57 | 5.55       | 431.11     | 2.33           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 23:12 | 5.18       | 339.03     | 2.01           |
| 2017/02/01 23:27 | 5.05       | 321.67     | 1.97           |
| 2017/02/01 23:42 | 4.91       | 300.97     | 1.92           |
| 2017/02/01 23:57 | 4.64       | 268.05     | 1.85           |
| 2017/02/02 00:12 | 4.58       | 238.40     | 1.67           |
| 2017/02/02 00:27 | 4.15       | 200.97     | 1.62           |
| 2017/02/02 00:42 | 4.08       | 196.32     | 1.62           |
| 2017/02/02 00:57 | 3.71       | 153.82     | 1.45           |
| 2017/02/02 01:12 | 3.65       | 143.61     | 1.39           |
| 2017/02/02 01:27 | 3.64       | 97.99      | 0.95           |
| 2017/02/02 01:42 | 3.44       | 90.69      | 0.95           |
| 2017/02/02 01:57 | 3.40       | 85.83      | 0.92           |
| 2017/02/02 02:12 | 3.26       | 83.96      | 0.95           |
| 2017/02/02 02:27 | 3.25       | 83.47      | 0.95           |
| 2017/02/02 02:42 | 3.23       | 90.14      | 1.03           |
| 2017/02/02 02:57 | 3.12       | 85.76      | 1.03           |
| 2017/02/02 03:12 | 3.11       | 85.21      | 1.03           |
| 2017/02/02 03:27 | 3.11       | 85.21      | 1.03           |
| 2017/02/02 03:42 | 3.09       | 84.65      | 1.03           |
| 2017/02/02 03:57 | 3.07       | 86.32      | 1.07           |
| 2017/02/02 04:12 | 3.07       | 86.32      | 1.07           |
| 2017/02/02 04:27 | 3.07       | 113.47     | 1.40           |
| 2017/02/02 04:42 | 3.07       | 132.36     | 1.64           |
| 2017/02/02 04:57 | 3.08       | 134.44     | 1.65           |
| 2017/02/02 05:12 | 3.09       | 135.35     | 1.65           |
| 2017/02/02 05:27 | 3.18       | 143.06     | 1.68           |
| 2017/02/02 05:42 | 3.43       | 159.31     | 1.68           |
| 2017/02/02 05:57 | 3.58       | 193.61     | 1.92           |
| 2017/02/02 06:12 | 3.93       | 220.62     | 1.92           |
| 2017/02/02 06:27 | 4.29       | 249.51     | 1.92           |
| 2017/02/02 06:42 | 4.29       | 280.49     | 2.16           |
| 2017/02/02 06:57 | 4.87       | 334.65     | 2.16           |
| 2017/02/02 07:12 | 5.87       | 457.15     | 2.29           |
| 2017/02/02 07:27 | 5.98       | 468.82     | 2.29           |
| 2017/02/02 07:42 | 6.14       | 453.75     | 2.14           |
| 2017/02/02 07:57 | 6.76       | 585.48     | 2.43           |
| 2017/02/02 08:12 | 6.98       | 610.69     | 2.43           |
| 2017/02/02 08:27 | 6.98       | 537.85     | 2.14           |
| 2017/02/02 08:42 | 6.98       | 463.47     | 1.84           |
| 2017/02/02 08:57 | 6.98       | 424.72     | 1.69           |
| 2017/02/02 09:12 | 6.77       | 408.33     | 1.69           |
| 2017/02/02 09:27 | 6.72       | 474.72     | 1.99           |
| 2017/02/02 09:42 | 6.70       | 473.40     | 1.99           |
| 2017/02/02 09:57 | 6.69       | 472.15     | 1.99           |
| 2017/02/02 10:12 | 6.68       | 524.03     | 2.21           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 10:27 | 6.59       | 556.04     | 2.39           |
| 2017/02/02 10:42 | 6.57       | 561.80     | 2.42           |
| 2017/02/02 10:57 | 6.57       | 587.29     | 2.53           |
| 2017/02/02 11:12 | 6.51       | 580.76     | 2.53           |
| 2017/02/02 11:27 | 6.41       | 569.30     | 2.53           |
| 2017/02/02 11:42 | 6.26       | 562.08     | 2.58           |
| 2017/02/02 11:57 | 6.22       | 557.15     | 2.58           |
| 2017/02/02 12:12 | 6.14       | 513.61     | 2.42           |
| 2017/02/02 12:27 | 5.98       | 529.17     | 2.58           |
| 2017/02/02 12:42 | 5.86       | 494.03     | 2.48           |
| 2017/02/02 12:57 | 5.84       | 492.43     | 2.48           |
| 2017/02/02 13:12 | 5.76       | 483.05     | 2.48           |
| 2017/02/02 13:27 | 5.73       | 413.47     | 2.14           |
| 2017/02/02 13:42 | 5.64       | 468.96     | 2.48           |
| 2017/02/02 13:57 | 5.64       | 492.36     | 2.60           |
| 2017/02/02 14:12 | 5.64       | 468.96     | 2.48           |
| 2017/02/02 14:27 | 5.59       | 478.33     | 2.55           |
| 2017/02/02 14:42 | 5.58       | 476.73     | 2.55           |
| 2017/02/02 14:57 | 5.58       | 456.18     | 2.44           |
| 2017/02/02 15:12 | 5.58       | 456.18     | 2.44           |
| 2017/02/02 15:27 | 5.64       | 444.17     | 2.35           |
| 2017/02/02 15:42 | 5.58       | 412.64     | 2.21           |
| 2017/02/02 15:57 | 5.58       | 438.26     | 2.35           |
| 2017/02/02 16:12 | 5.58       | 407.50     | 2.18           |
| 2017/02/02 16:27 | 5.32       | 410.42     | 2.35           |
| 2017/02/02 16:42 | 5.32       | 410.42     | 2.35           |
| 2017/02/02 16:57 | 5.32       | 317.64     | 1.82           |
| 2017/02/02 17:12 | 5.32       | 333.05     | 1.91           |
| 2017/02/02 17:27 | 5.27       | 349.58     | 2.02           |
| 2017/02/02 17:42 | 5.51       | 357.57     | 1.95           |
| 2017/02/02 17:57 | 5.62       | 374.23     | 1.99           |
| 2017/02/02 18:12 | 5.64       | 375.48     | 1.99           |
| 2017/02/02 18:27 | 5.77       | 387.98     | 1.99           |
| 2017/02/02 18:42 | 5.91       | 407.98     | 2.02           |
| 2017/02/02 18:57 | 5.94       | 451.11     | 2.22           |
| 2017/02/02 19:12 | 6.12       | 525.90     | 2.49           |
| 2017/02/02 19:27 | 6.27       | 577.43     | 2.64           |
| 2017/02/02 19:42 | 6.44       | 597.78     | 2.64           |
| 2017/02/02 19:57 | 6.54       | 609.65     | 2.64           |
| 2017/02/02 20:12 | 6.57       | 613.05     | 2.64           |
| 2017/02/02 20:27 | 6.65       | 623.33     | 2.64           |
| 2017/02/02 20:42 | 6.65       | 591.66     | 2.51           |
| 2017/02/02 20:57 | 6.65       | 572.57     | 2.43           |
| 2017/02/02 21:12 | 6.54       | 479.86     | 2.08           |
| 2017/02/02 21:27 | 6.37       | 463.82     | 2.08           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 21:42 | 6.33       | 554.51     | 2.51           |
| 2017/02/02 21:57 | 6.11       | 438.47     | 2.08           |
| 2017/02/02 22:12 | 5.80       | 405.21     | 2.06           |
| 2017/02/02 22:27 | 5.77       | 385.00     | 1.97           |
| 2017/02/02 22:42 | 5.69       | 386.94     | 2.02           |
| 2017/02/02 22:57 | 5.40       | 341.25     | 1.91           |
| 2017/02/02 23:12 | 5.37       | 314.79     | 1.78           |
| 2017/02/02 23:27 | 5.18       | 298.12     | 1.77           |
| 2017/02/02 23:42 | 4.89       | 275.35     | 1.77           |
| 2017/02/02 23:57 | 4.66       | 259.37     | 1.78           |
| 2017/02/03 00:12 | 4.46       | 242.43     | 1.77           |
| 2017/02/03 00:27 | 4.25       | 199.79     | 1.56           |
| 2017/02/03 00:42 | 4.02       | 163.89     | 1.38           |
| 2017/02/03 00:57 | 3.73       | 147.43     | 1.38           |
| 2017/02/03 01:12 | 3.69       | 156.67     | 1.49           |
| 2017/02/03 01:27 | 3.64       | 153.40     | 1.49           |
| 2017/02/03 01:42 | 3.36       | 111.18     | 1.21           |
| 2017/02/03 01:57 | 3.32       | 124.93     | 1.38           |
| 2017/02/03 02:12 | 3.27       | 101.87     | 1.15           |
| 2017/02/03 02:27 | 3.27       | 101.87     | 1.15           |
| 2017/02/03 02:42 | 3.21       | 88.26      | 1.02           |
| 2017/02/03 02:57 | 3.18       | 87.15      | 1.02           |
| 2017/02/03 03:12 | 3.14       | 85.56      | 1.02           |
| 2017/02/03 03:27 | 3.12       | 85.00      | 1.02           |
| 2017/02/03 03:42 | 3.09       | 76.18      | 0.93           |
| 2017/02/03 03:57 | 3.09       | 76.18      | 0.93           |
| 2017/02/03 04:12 | 3.07       | 75.21      | 0.93           |
| 2017/02/03 04:27 | 3.07       | 82.64      | 1.02           |
| 2017/02/03 04:42 | 3.07       | 82.64      | 1.02           |
| 2017/02/03 04:57 | 3.12       | 90.69      | 1.09           |
| 2017/02/03 05:12 | 3.22       | 88.54      | 1.02           |
| 2017/02/03 05:27 | 3.41       | 96.25      | 1.02           |
| 2017/02/03 05:42 | 3.55       | 109.03     | 1.09           |
| 2017/02/03 05:57 | 3.58       | 136.53     | 1.35           |
| 2017/02/03 06:12 | 3.87       | 157.08     | 1.39           |
| 2017/02/03 06:27 | 4.96       | 244.17     | 1.54           |
| 2017/02/03 06:42 | 5.09       | 311.46     | 1.89           |
| 2017/02/03 06:57 | 5.27       | 326.60     | 1.89           |
| 2017/02/03 07:12 | 5.29       | 327.78     | 1.89           |
| 2017/02/03 07:27 | 5.61       | 358.33     | 1.91           |
| 2017/02/03 07:42 | 6.12       | 403.05     | 1.91           |
| 2017/02/03 07:57 | 7.12       | 491.53     | 1.91           |
| 2017/02/03 08:12 | 7.41       | 607.78     | 2.24           |
| 2017/02/03 08:27 | 7.41       | 607.78     | 2.24           |
| 2017/02/03 08:42 | 7.70       | 638.33     | 2.24           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 08:57 | 7.70       | 638.33     | 2.24           |
| 2017/02/03 09:12 | 7.70       | 638.33     | 2.24           |
| 2017/02/03 09:27 | 7.41       | 625.21     | 2.30           |
| 2017/02/03 09:42 | 7.30       | 623.75     | 2.34           |
| 2017/02/03 09:57 | 7.25       | 617.71     | 2.34           |
| 2017/02/03 10:12 | 7.02       | 595.69     | 2.35           |
| 2017/02/03 10:27 | 7.02       | 595.69     | 2.35           |
| 2017/02/03 10:42 | 6.97       | 589.58     | 2.35           |
| 2017/02/03 10:57 | 6.82       | 570.62     | 2.34           |
| 2017/02/03 11:12 | 6.65       | 517.22     | 2.19           |
| 2017/02/03 11:27 | 6.64       | 515.76     | 2.19           |
| 2017/02/03 11:42 | 6.55       | 507.29     | 2.19           |
| 2017/02/03 11:57 | 6.54       | 505.90     | 2.19           |
| 2017/02/03 12:12 | 6.50       | 504.79     | 2.21           |
| 2017/02/03 12:27 | 6.50       | 522.57     | 2.29           |
| 2017/02/03 12:42 | 6.50       | 544.23     | 2.38           |
| 2017/02/03 12:57 | 6.50       | 544.23     | 2.38           |
| 2017/02/03 13:12 | 6.50       | 544.23     | 2.38           |
| 2017/02/03 13:27 | 6.40       | 533.54     | 2.38           |
| 2017/02/03 13:42 | 6.40       | 537.98     | 2.40           |
| 2017/02/03 13:57 | 6.33       | 537.36     | 2.43           |
| 2017/02/03 14:12 | 6.26       | 522.57     | 2.40           |
| 2017/02/03 14:27 | 6.16       | 511.80     | 2.40           |
| 2017/02/03 14:42 | 6.11       | 505.69     | 2.40           |
| 2017/02/03 14:57 | 6.09       | 494.23     | 2.35           |
| 2017/02/03 15:12 | 6.00       | 532.64     | 2.59           |
| 2017/02/03 15:27 | 5.97       | 480.76     | 2.35           |
| 2017/02/03 15:42 | 5.79       | 457.15     | 2.33           |
| 2017/02/03 15:57 | 5.73       | 455.42     | 2.35           |
| 2017/02/03 16:12 | 5.69       | 446.87     | 2.33           |
| 2017/02/03 16:27 | 5.69       | 446.87     | 2.33           |
| 2017/02/03 16:42 | 5.73       | 465.14     | 2.40           |
| 2017/02/03 16:57 | 5.73       | 451.25     | 2.33           |
| 2017/02/03 17:12 | 5.76       | 405.76     | 2.08           |
| 2017/02/03 17:27 | 5.76       | 419.44     | 2.15           |
| 2017/02/03 17:42 | 5.76       | 405.76     | 2.08           |
| 2017/02/03 17:57 | 5.76       | 419.44     | 2.15           |
| 2017/02/03 18:12 | 5.76       | 352.22     | 1.81           |
| 2017/02/03 18:27 | 5.87       | 355.28     | 1.78           |
| 2017/02/03 18:42 | 5.91       | 364.86     | 1.81           |
| 2017/02/03 18:57 | 5.95       | 368.26     | 1.81           |
| 2017/02/03 19:12 | 6.01       | 372.92     | 1.81           |
| 2017/02/03 19:27 | 6.01       | 402.15     | 1.95           |
| 2017/02/03 19:42 | 6.01       | 402.15     | 1.95           |
| 2017/02/03 19:57 | 6.01       | 402.15     | 1.95           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 20:12 | 6.01       | 404.65     | 1.96           |
| 2017/02/03 20:27 | 5.91       | 395.97     | 1.96           |
| 2017/02/03 20:42 | 5.87       | 415.42     | 2.08           |
| 2017/02/03 20:57 | 5.73       | 392.22     | 2.03           |
| 2017/02/03 21:12 | 5.73       | 392.22     | 2.03           |
| 2017/02/03 21:27 | 5.73       | 379.79     | 1.96           |
| 2017/02/03 21:42 | 5.69       | 388.40     | 2.03           |
| 2017/02/03 21:57 | 5.65       | 385.69     | 2.03           |
| 2017/02/03 22:12 | 5.41       | 364.03     | 2.03           |
| 2017/02/03 22:27 | 5.41       | 362.98     | 2.03           |
| 2017/02/03 22:42 | 5.18       | 342.64     | 2.03           |
| 2017/02/03 22:57 | 5.15       | 313.05     | 1.87           |
| 2017/02/03 23:12 | 4.97       | 323.89     | 2.03           |
| 2017/02/03 23:27 | 4.89       | 316.46     | 2.03           |
| 2017/02/03 23:42 | 4.87       | 290.14     | 1.87           |
| 2017/02/03 23:57 | 4.73       | 292.64     | 1.96           |
| 2017/02/04 00:12 | 4.54       | 276.18     | 1.96           |
| 2017/02/04 00:27 | 4.50       | 245.76     | 1.77           |
| 2017/02/04 00:42 | 4.37       | 236.32     | 1.77           |
| 2017/02/04 00:57 | 3.97       | 205.42     | 1.76           |
| 2017/02/04 01:12 | 3.94       | 201.46     | 1.74           |
| 2017/02/04 01:27 | 3.73       | 142.85     | 1.34           |
| 2017/02/04 01:42 | 3.59       | 111.11     | 1.10           |
| 2017/02/04 01:57 | 3.39       | 102.08     | 1.10           |
| 2017/02/04 02:12 | 3.36       | 97.29      | 1.06           |
| 2017/02/04 02:27 | 3.33       | 96.11      | 1.06           |
| 2017/02/04 02:42 | 3.26       | 80.90      | 0.92           |
| 2017/02/04 02:57 | 3.22       | 95.00      | 1.10           |
| 2017/02/04 03:12 | 3.18       | 88.75      | 1.04           |
| 2017/02/04 03:27 | 3.21       | 99.31      | 1.15           |
| 2017/02/04 03:42 | 3.18       | 98.06      | 1.15           |
| 2017/02/04 03:57 | 3.16       | 97.50      | 1.15           |
| 2017/02/04 04:12 | 3.16       | 88.19      | 1.04           |
| 2017/02/04 04:27 | 3.15       | 88.89      | 1.06           |
| 2017/02/04 04:42 | 3.09       | 86.67      | 1.06           |
| 2017/02/04 04:57 | 3.09       | 104.10     | 1.27           |
| 2017/02/04 05:12 | 3.09       | 86.67      | 1.06           |
| 2017/02/04 05:27 | 3.09       | 86.67      | 1.06           |
| 2017/02/04 05:42 | 3.18       | 93.82      | 1.10           |
| 2017/02/04 05:57 | 3.22       | 95.56      | 1.10           |
| 2017/02/04 06:12 | 3.29       | 103.26     | 1.16           |
| 2017/02/04 06:27 | 3.33       | 105.14     | 1.16           |
| 2017/02/04 06:42 | 3.43       | 109.51     | 1.16           |
| 2017/02/04 06:57 | 3.79       | 132.57     | 1.21           |
| 2017/02/04 07:12 | 3.79       | 154.37     | 1.41           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 07:27 | 4.00       | 221.25     | 1.88           |
| 2017/02/04 07:42 | 4.55       | 265.28     | 1.88           |
| 2017/02/04 07:57 | 4.84       | 295.35     | 1.92           |
| 2017/02/04 08:12 | 5.05       | 312.92     | 1.92           |
| 2017/02/04 08:27 | 5.39       | 355.83     | 2.00           |
| 2017/02/04 08:42 | 5.80       | 393.47     | 2.00           |
| 2017/02/04 08:57 | 5.89       | 428.96     | 2.14           |
| 2017/02/04 09:12 | 6.08       | 458.54     | 2.19           |
| 2017/02/04 09:27 | 6.37       | 499.51     | 2.24           |
| 2017/02/04 09:42 | 6.59       | 531.46     | 2.28           |
| 2017/02/04 09:57 | 6.82       | 572.08     | 2.35           |
| 2017/02/04 10:12 | 6.90       | 563.89     | 2.28           |
| 2017/02/04 10:27 | 6.94       | 573.26     | 2.30           |
| 2017/02/04 10:42 | 7.09       | 597.08     | 2.33           |
| 2017/02/04 10:57 | 7.00       | 590.35     | 2.34           |
| 2017/02/04 11:12 | 7.00       | 586.53     | 2.33           |
| 2017/02/04 11:27 | 7.00       | 586.53     | 2.33           |
| 2017/02/04 11:42 | 7.09       | 597.08     | 2.33           |
| 2017/02/04 11:57 | 7.00       | 586.53     | 2.33           |
| 2017/02/04 12:12 | 6.86       | 575.14     | 2.34           |
| 2017/02/04 12:27 | 6.83       | 602.71     | 2.47           |
| 2017/02/04 12:42 | 6.79       | 597.91     | 2.47           |
| 2017/02/04 12:57 | 6.70       | 596.32     | 2.50           |
| 2017/02/04 13:12 | 6.69       | 586.73     | 2.47           |
| 2017/02/04 13:27 | 6.66       | 583.54     | 2.47           |
| 2017/02/04 13:42 | 6.57       | 572.43     | 2.47           |
| 2017/02/04 13:57 | 6.52       | 494.30     | 2.15           |
| 2017/02/04 14:12 | 6.52       | 494.30     | 2.15           |
| 2017/02/04 14:27 | 6.50       | 595.48     | 2.60           |
| 2017/02/04 14:42 | 6.45       | 575.62     | 2.54           |
| 2017/02/04 14:57 | 6.45       | 575.62     | 2.54           |
| 2017/02/04 15:12 | 6.45       | 482.92     | 2.13           |
| 2017/02/04 15:27 | 6.39       | 476.04     | 2.13           |
| 2017/02/04 15:42 | 6.32       | 469.23     | 2.13           |
| 2017/02/04 15:57 | 6.32       | 427.85     | 1.94           |
| 2017/02/04 16:12 | 6.32       | 427.85     | 1.94           |
| 2017/02/04 16:27 | 6.23       | 420.42     | 1.94           |
| 2017/02/04 16:42 | 6.25       | 421.67     | 1.94           |
| 2017/02/04 16:57 | 6.25       | 467.36     | 2.15           |
| 2017/02/04 17:12 | 6.23       | 465.97     | 2.15           |
| 2017/02/04 17:27 | 6.23       | 499.03     | 2.31           |
| 2017/02/04 17:42 | 6.23       | 546.60     | 2.53           |
| 2017/02/04 17:57 | 6.23       | 499.03     | 2.31           |
| 2017/02/04 18:12 | 6.25       | 548.82     | 2.53           |
| 2017/02/04 18:27 | 6.22       | 545.62     | 2.53           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 18:42 | 6.19       | 465.48     | 2.17           |
| 2017/02/04 18:57 | 6.22       | 545.62     | 2.53           |
| 2017/02/04 19:12 | 6.22       | 468.26     | 2.17           |
| 2017/02/04 19:27 | 6.22       | 466.25     | 2.16           |
| 2017/02/04 19:42 | 6.25       | 471.04     | 2.17           |
| 2017/02/04 19:57 | 6.22       | 468.26     | 2.17           |
| 2017/02/04 20:12 | 6.25       | 450.83     | 2.08           |
| 2017/02/04 20:27 | 6.25       | 482.64     | 2.22           |
| 2017/02/04 20:42 | 6.22       | 448.12     | 2.08           |
| 2017/02/04 20:57 | 5.95       | 422.98     | 2.08           |
| 2017/02/04 21:12 | 5.73       | 409.03     | 2.11           |
| 2017/02/04 21:27 | 5.50       | 381.73     | 2.09           |
| 2017/02/04 21:42 | 5.47       | 351.11     | 1.93           |
| 2017/02/04 21:57 | 5.37       | 370.00     | 2.09           |
| 2017/02/04 22:12 | 5.34       | 359.37     | 2.04           |
| 2017/02/04 22:27 | 5.29       | 354.24     | 2.04           |
| 2017/02/04 22:42 | 5.23       | 349.24     | 2.04           |
| 2017/02/04 22:57 | 5.11       | 330.83     | 2.00           |
| 2017/02/04 23:12 | 5.05       | 315.90     | 1.94           |
| 2017/02/04 23:27 | 5.05       | 315.90     | 1.94           |
| 2017/02/04 23:42 | 5.00       | 311.18     | 1.94           |
| 2017/02/04 23:57 | 5.00       | 311.18     | 1.94           |
| 2017/02/05 00:12 | 4.82       | 295.83     | 1.94           |
| 2017/02/05 00:27 | 4.69       | 285.28     | 1.94           |
| 2017/02/05 00:42 | 4.41       | 262.15     | 1.94           |
| 2017/02/05 00:57 | 4.25       | 257.08     | 2.01           |
| 2017/02/05 01:12 | 4.19       | 252.43     | 2.01           |
| 2017/02/05 01:27 | 4.09       | 213.40     | 1.75           |
| 2017/02/05 01:42 | 4.08       | 173.75     | 1.43           |
| 2017/02/05 01:57 | 3.90       | 154.86     | 1.36           |
| 2017/02/05 02:12 | 3.75       | 137.85     | 1.28           |
| 2017/02/05 02:27 | 3.64       | 132.15     | 1.28           |
| 2017/02/05 02:42 | 3.62       | 116.11     | 1.13           |
| 2017/02/05 02:57 | 3.59       | 114.86     | 1.13           |
| 2017/02/05 03:12 | 3.57       | 113.61     | 1.13           |
| 2017/02/05 03:27 | 3.50       | 110.62     | 1.13           |
| 2017/02/05 03:42 | 3.23       | 98.96      | 1.13           |
| 2017/02/05 03:57 | 3.19       | 104.17     | 1.22           |
| 2017/02/05 04:12 | 3.19       | 97.15      | 1.13           |
| 2017/02/05 04:27 | 3.19       | 104.17     | 1.22           |
| 2017/02/05 04:42 | 3.14       | 101.60     | 1.22           |
| 2017/02/05 04:57 | 3.14       | 100.07     | 1.20           |
| 2017/02/05 05:12 | 3.14       | 100.07     | 1.20           |
| 2017/02/05 05:27 | 3.14       | 100.07     | 1.20           |
| 2017/02/05 05:42 | 3.14       | 92.43      | 1.11           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 05:57 | 3.15       | 92.99      | 1.11           |
| 2017/02/05 06:12 | 3.22       | 95.97      | 1.11           |
| 2017/02/05 06:27 | 3.26       | 91.53      | 1.04           |
| 2017/02/05 06:42 | 3.54       | 102.78     | 1.04           |
| 2017/02/05 06:57 | 3.59       | 105.07     | 1.04           |
| 2017/02/05 07:12 | 3.79       | 139.51     | 1.28           |
| 2017/02/05 07:27 | 3.89       | 146.67     | 1.30           |
| 2017/02/05 07:42 | 4.23       | 235.07     | 1.84           |
| 2017/02/05 07:57 | 4.36       | 275.83     | 2.08           |
| 2017/02/05 08:12 | 5.01       | 334.51     | 2.08           |
| 2017/02/05 08:27 | 5.01       | 341.39     | 2.12           |
| 2017/02/05 08:42 | 5.47       | 384.65     | 2.12           |
| 2017/02/05 08:57 | 5.65       | 416.39     | 2.19           |
| 2017/02/05 09:12 | 5.87       | 435.48     | 2.18           |
| 2017/02/05 09:27 | 5.91       | 460.90     | 2.28           |
| 2017/02/05 09:42 | 6.39       | 486.94     | 2.18           |
| 2017/02/05 09:57 | 6.48       | 573.33     | 2.51           |
| 2017/02/05 10:12 | 6.55       | 581.39     | 2.51           |
| 2017/02/05 10:27 | 6.86       | 617.50     | 2.52           |
| 2017/02/05 10:42 | 6.87       | 619.10     | 2.52           |
| 2017/02/05 10:57 | 6.93       | 666.60     | 2.68           |
| 2017/02/05 11:12 | 7.05       | 688.47     | 2.71           |
| 2017/02/05 11:27 | 7.05       | 691.94     | 2.72           |
| 2017/02/05 11:42 | 7.05       | 700.48     | 2.75           |
| 2017/02/05 11:57 | 7.09       | 705.83     | 2.75           |
| 2017/02/05 12:12 | 7.09       | 705.83     | 2.75           |
| 2017/02/05 12:27 | 7.15       | 700.69     | 2.71           |
| 2017/02/05 12:42 | 7.18       | 619.23     | 2.38           |
| 2017/02/05 12:57 | 7.19       | 620.76     | 2.38           |
| 2017/02/05 13:12 | 7.19       | 620.76     | 2.38           |
| 2017/02/05 13:27 | 7.19       | 620.76     | 2.38           |
| 2017/02/05 13:42 | 7.19       | 738.26     | 2.83           |
| 2017/02/05 13:57 | 7.18       | 736.39     | 2.83           |
| 2017/02/05 14:12 | 7.01       | 714.37     | 2.83           |
| 2017/02/05 14:27 | 6.97       | 708.89     | 2.83           |
| 2017/02/05 14:42 | 6.69       | 672.29     | 2.83           |
| 2017/02/05 14:57 | 6.68       | 590.55     | 2.49           |
| 2017/02/05 15:12 | 6.65       | 573.68     | 2.43           |
| 2017/02/05 15:27 | 6.58       | 511.18     | 2.20           |
| 2017/02/05 15:42 | 6.55       | 508.33     | 2.20           |
| 2017/02/05 15:57 | 6.33       | 511.04     | 2.31           |
| 2017/02/05 16:12 | 6.19       | 471.67     | 2.20           |
| 2017/02/05 16:27 | 6.16       | 448.68     | 2.10           |
| 2017/02/05 16:42 | 5.83       | 416.60     | 2.10           |
| 2017/02/05 16:57 | 5.58       | 385.55     | 2.07           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 17:12 | 5.47       | 375.76     | 2.07           |
| 2017/02/05 17:27 | 5.47       | 375.76     | 2.07           |
| 2017/02/05 17:42 | 5.26       | 355.97     | 2.07           |
| 2017/02/05 17:57 | 5.26       | 355.97     | 2.07           |
| 2017/02/05 18:12 | 5.25       | 340.49     | 1.98           |
| 2017/02/05 18:27 | 5.25       | 340.49     | 1.98           |
| 2017/02/05 18:42 | 5.25       | 355.21     | 2.07           |
| 2017/02/05 18:57 | 5.19       | 358.61     | 2.12           |
| 2017/02/05 19:12 | 5.12       | 317.36     | 1.91           |
| 2017/02/05 19:27 | 5.12       | 320.90     | 1.93           |
| 2017/02/05 19:42 | 5.25       | 331.60     | 1.93           |
| 2017/02/05 19:57 | 5.25       | 331.60     | 1.93           |
| 2017/02/05 20:12 | 5.25       | 331.60     | 1.93           |
| 2017/02/05 20:27 | 5.44       | 331.39     | 1.84           |
| 2017/02/05 20:42 | 5.64       | 336.25     | 1.78           |
| 2017/02/05 20:57 | 6.32       | 404.65     | 1.84           |
| 2017/02/05 21:12 | 6.32       | 404.65     | 1.84           |
| 2017/02/05 21:27 | 6.32       | 478.26     | 2.17           |
| 2017/02/05 21:42 | 6.32       | 478.26     | 2.17           |
| 2017/02/05 21:57 | 6.04       | 450.55     | 2.17           |
| 2017/02/05 22:12 | 5.93       | 461.46     | 2.28           |
| 2017/02/05 22:27 | 5.82       | 449.86     | 2.28           |
| 2017/02/05 22:42 | 5.73       | 431.46     | 2.23           |
| 2017/02/05 22:57 | 5.61       | 418.82     | 2.23           |
| 2017/02/05 23:12 | 5.21       | 363.82     | 2.14           |
| 2017/02/05 23:27 | 4.98       | 342.71     | 2.14           |
| 2017/02/05 23:42 | 4.87       | 326.60     | 2.11           |
| 2017/02/05 23:57 | 4.41       | 272.29     | 2.01           |
| 2017/02/06 00:12 | 4.30       | 252.43     | 1.93           |
| 2017/02/06 00:27 | 4.25       | 246.11     | 1.92           |
| 2017/02/06 00:42 | 3.98       | 203.33     | 1.73           |
| 2017/02/06 00:57 | 3.76       | 147.64     | 1.37           |
| 2017/02/06 01:12 | 3.76       | 134.31     | 1.24           |
| 2017/02/06 01:27 | 3.66       | 126.60     | 1.21           |
| 2017/02/06 01:42 | 3.64       | 125.21     | 1.21           |
| 2017/02/06 01:57 | 3.58       | 125.28     | 1.24           |
| 2017/02/06 02:12 | 3.37       | 115.07     | 1.24           |
| 2017/02/06 02:27 | 3.32       | 110.62     | 1.22           |
| 2017/02/06 02:42 | 3.18       | 104.10     | 1.22           |
| 2017/02/06 02:57 | 3.16       | 103.40     | 1.22           |
| 2017/02/06 03:12 | 3.16       | 103.40     | 1.22           |
| 2017/02/06 03:27 | 3.16       | 103.40     | 1.22           |
| 2017/02/06 03:42 | 3.18       | 104.10     | 1.22           |
| 2017/02/06 03:57 | 3.73       | 130.76     | 1.22           |
| 2017/02/06 04:12 | 4.22       | 218.68     | 1.72           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 04:27 | 4.22       | 223.96     | 1.76           |
| 2017/02/06 04:42 | 4.39       | 264.58     | 1.97           |
| 2017/02/06 04:57 | 4.39       | 264.58     | 1.97           |
| 2017/02/06 05:12 | 4.39       | 266.25     | 1.99           |
| 2017/02/06 05:27 | 4.54       | 289.24     | 2.06           |
| 2017/02/06 05:42 | 4.80       | 312.78     | 2.06           |
| 2017/02/06 05:57 | 4.89       | 343.33     | 2.20           |
| 2017/02/06 06:12 | 4.89       | 343.33     | 2.20           |
| 2017/02/06 06:27 | 5.62       | 385.42     | 2.04           |
| 2017/02/06 06:42 | 7.05       | 520.28     | 2.04           |
| 2017/02/06 06:57 | 7.54       | 566.73     | 2.04           |
| 2017/02/06 07:12 | 7.69       | 581.32     | 2.04           |
| 2017/02/06 07:27 | 7.72       | 616.66     | 2.16           |
| 2017/02/06 07:42 | 7.91       | 602.57     | 2.04           |
| 2017/02/06 07:57 | 8.51       | 696.25     | 2.16           |
| 2017/02/06 08:12 | 9.58       | 801.80     | 2.16           |
| 2017/02/06 08:27 | 9.58       | 801.80     | 2.16           |
| 2017/02/06 08:42 | 9.58       | 602.91     | 1.62           |
| 2017/02/06 08:57 | 9.58       | 560.97     | 1.51           |
| 2017/02/06 09:12 | 9.29       | 541.11     | 1.51           |
| 2017/02/06 09:27 | 9.09       | 567.15     | 1.62           |
| 2017/02/06 09:42 | 9.00       | 559.93     | 1.62           |
| 2017/02/06 09:57 | 8.97       | 602.43     | 1.75           |
| 2017/02/06 10:12 | 8.97       | 781.25     | 2.27           |
| 2017/02/06 10:27 | 8.94       | 778.33     | 2.27           |
| 2017/02/06 10:42 | 8.77       | 763.47     | 2.28           |
| 2017/02/06 10:57 | 8.63       | 748.82     | 2.28           |
| 2017/02/06 11:12 | 8.61       | 876.59     | 2.68           |
| 2017/02/06 11:27 | 8.54       | 867.98     | 2.68           |
| 2017/02/06 11:42 | 8.11       | 797.22     | 2.62           |
| 2017/02/06 11:57 | 7.55       | 744.86     | 2.68           |
| 2017/02/06 12:12 | 7.32       | 715.28     | 2.68           |
| 2017/02/06 12:27 | 6.83       | 640.69     | 2.62           |
| 2017/02/06 12:42 | 6.54       | 581.53     | 2.52           |
| 2017/02/06 12:57 | 6.45       | 571.80     | 2.52           |
| 2017/02/06 13:12 | 6.43       | 568.54     | 2.52           |
| 2017/02/06 13:27 | 6.40       | 565.35     | 2.52           |
| 2017/02/06 13:42 | 6.14       | 530.42     | 2.50           |
| 2017/02/06 13:57 | 5.97       | 511.32     | 2.50           |
| 2017/02/06 14:12 | 5.82       | 493.82     | 2.50           |
| 2017/02/06 14:27 | 5.82       | 470.97     | 2.39           |
| 2017/02/06 14:42 | 5.82       | 452.01     | 2.29           |
| 2017/02/06 14:57 | 5.68       | 437.50     | 2.29           |
| 2017/02/06 15:12 | 5.68       | 420.90     | 2.20           |
| 2017/02/06 15:27 | 5.68       | 437.50     | 2.29           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 15:42 | 5.59       | 409.72     | 2.19           |
| 2017/02/06 15:57 | 5.55       | 381.32     | 2.06           |
| 2017/02/06 16:12 | 5.51       | 401.53     | 2.19           |
| 2017/02/06 16:27 | 5.51       | 401.53     | 2.19           |
| 2017/02/06 16:42 | 5.51       | 410.48     | 2.24           |
| 2017/02/06 16:57 | 5.47       | 406.25     | 2.24           |
| 2017/02/06 17:12 | 5.44       | 364.37     | 2.02           |
| 2017/02/06 17:27 | 5.47       | 397.71     | 2.19           |
| 2017/02/06 17:42 | 5.47       | 406.25     | 2.24           |
| 2017/02/06 17:57 | 5.64       | 455.14     | 2.41           |
| 2017/02/06 18:12 | 5.82       | 464.93     | 2.36           |
| 2017/02/06 18:27 | 6.02       | 487.36     | 2.36           |
| 2017/02/06 18:42 | 6.27       | 525.42     | 2.41           |
| 2017/02/06 18:57 | 6.30       | 534.58     | 2.43           |
| 2017/02/06 19:12 | 6.33       | 565.28     | 2.56           |
| 2017/02/06 19:27 | 6.36       | 611.66     | 2.75           |
| 2017/02/06 19:42 | 6.40       | 624.79     | 2.79           |
| 2017/02/06 19:57 | 6.50       | 637.36     | 2.79           |
| 2017/02/06 20:12 | 6.50       | 637.36     | 2.79           |
| 2017/02/06 20:27 | 6.50       | 629.37     | 2.75           |
| 2017/02/06 20:42 | 6.55       | 591.60     | 2.56           |
| 2017/02/06 20:57 | 6.55       | 558.12     | 2.41           |
| 2017/02/06 21:12 | 6.50       | 551.87     | 2.41           |
| 2017/02/06 21:27 | 6.37       | 537.91     | 2.41           |
| 2017/02/06 21:42 | 6.37       | 537.91     | 2.41           |
| 2017/02/06 21:57 | 6.33       | 533.26     | 2.41           |
| 2017/02/06 22:12 | 6.32       | 531.73     | 2.41           |
| 2017/02/06 22:27 | 6.26       | 525.55     | 2.41           |
| 2017/02/06 22:42 | 6.12       | 510.14     | 2.41           |
| 2017/02/06 22:57 | 5.37       | 414.37     | 2.34           |
| 2017/02/06 23:12 | 5.33       | 397.71     | 2.27           |
| 2017/02/06 23:27 | 5.29       | 393.47     | 2.27           |
| 2017/02/06 23:42 | 5.21       | 369.72     | 2.18           |
| 2017/02/06 23:57 | 4.97       | 347.01     | 2.18           |
| 2017/02/07 00:12 | 4.93       | 337.22     | 2.14           |
| 2017/02/07 00:27 | 4.83       | 334.17     | 2.18           |
| 2017/02/07 00:42 | 4.62       | 314.44     | 2.18           |
| 2017/02/07 00:57 | 4.43       | 296.25     | 2.18           |
| 2017/02/07 01:12 | 4.43       | 290.90     | 2.14           |
| 2017/02/07 01:27 | 4.37       | 274.03     | 2.05           |
| 2017/02/07 01:42 | 4.18       | 247.22     | 1.97           |
| 2017/02/07 01:57 | 3.96       | 209.72     | 1.81           |
| 2017/02/07 02:12 | 3.87       | 203.54     | 1.81           |
| 2017/02/07 02:27 | 3.83       | 193.33     | 1.74           |
| 2017/02/07 02:42 | 3.73       | 193.33     | 1.81           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 02:57 | 3.61       | 177.71     | 1.74           |
| 2017/02/07 03:12 | 3.54       | 172.92     | 1.74           |
| 2017/02/07 03:27 | 3.54       | 172.92     | 1.74           |
| 2017/02/07 03:42 | 3.54       | 190.00     | 1.92           |
| 2017/02/07 03:57 | 3.54       | 190.00     | 1.92           |
| 2017/02/07 04:12 | 3.75       | 205.97     | 1.92           |
| 2017/02/07 04:27 | 3.84       | 224.93     | 2.02           |
| 2017/02/07 04:42 | 4.07       | 248.75     | 2.06           |
| 2017/02/07 04:57 | 4.07       | 250.97     | 2.08           |
| 2017/02/07 05:12 | 4.22       | 264.24     | 2.08           |
| 2017/02/07 05:27 | 4.22       | 261.94     | 2.06           |
| 2017/02/07 05:42 | 4.22       | 261.94     | 2.06           |
| 2017/02/07 05:57 | 4.40       | 280.14     | 2.08           |
| 2017/02/07 06:12 | 4.57       | 292.36     | 2.06           |
| 2017/02/07 06:27 | 4.96       | 335.76     | 2.11           |
| 2017/02/07 06:42 | 5.16       | 355.21     | 2.11           |
| 2017/02/07 06:57 | 5.39       | 451.87     | 2.54           |
| 2017/02/07 07:12 | 6.29       | 556.39     | 2.54           |
| 2017/02/07 07:27 | 6.79       | 512.15     | 2.11           |
| 2017/02/07 07:42 | 7.58       | 590.35     | 2.11           |
| 2017/02/07 07:57 | 7.58       | 671.66     | 2.41           |
| 2017/02/07 08:12 | 7.58       | 671.66     | 2.41           |
| 2017/02/07 08:27 | 7.58       | 671.66     | 2.41           |
| 2017/02/07 08:42 | 7.34       | 645.14     | 2.41           |
| 2017/02/07 08:57 | 6.90       | 680.14     | 2.75           |
| 2017/02/07 09:12 | 6.79       | 665.90     | 2.75           |
| 2017/02/07 09:27 | 6.70       | 655.21     | 2.75           |
| 2017/02/07 09:42 | 6.59       | 638.19     | 2.74           |
| 2017/02/07 09:57 | 6.55       | 632.91     | 2.74           |
| 2017/02/07 10:12 | 6.48       | 566.66     | 2.49           |
| 2017/02/07 10:27 | 6.45       | 563.47     | 2.49           |
| 2017/02/07 10:42 | 6.37       | 553.89     | 2.49           |
| 2017/02/07 10:57 | 6.36       | 552.29     | 2.49           |
| 2017/02/07 11:12 | 6.37       | 553.89     | 2.49           |
| 2017/02/07 11:27 | 6.34       | 585.90     | 2.64           |
| 2017/02/07 11:42 | 6.34       | 586.87     | 2.65           |
| 2017/02/07 11:57 | 6.14       | 561.46     | 2.65           |
| 2017/02/07 12:12 | 6.14       | 560.48     | 2.64           |
| 2017/02/07 12:27 | 6.32       | 554.93     | 2.52           |
| 2017/02/07 12:42 | 6.32       | 547.22     | 2.48           |
| 2017/02/07 12:57 | 6.12       | 502.08     | 2.38           |
| 2017/02/07 13:12 | 6.04       | 472.36     | 2.28           |
| 2017/02/07 13:27 | 5.97       | 465.14     | 2.28           |
| 2017/02/07 13:42 | 5.87       | 473.96     | 2.37           |
| 2017/02/07 13:57 | 5.80       | 447.85     | 2.28           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 14:12 | 5.43       | 409.23     | 2.28           |
| 2017/02/07 14:27 | 5.43       | 409.23     | 2.28           |
| 2017/02/07 14:42 | 5.41       | 424.72     | 2.37           |
| 2017/02/07 14:57 | 5.29       | 411.46     | 2.37           |
| 2017/02/07 15:12 | 5.27       | 377.78     | 2.19           |
| 2017/02/07 15:27 | 5.27       | 375.14     | 2.17           |
| 2017/02/07 15:42 | 5.19       | 367.08     | 2.17           |
| 2017/02/07 15:57 | 5.19       | 349.30     | 2.06           |
| 2017/02/07 16:12 | 5.19       | 349.30     | 2.06           |
| 2017/02/07 16:27 | 5.19       | 349.30     | 2.06           |
| 2017/02/07 16:42 | 5.19       | 349.30     | 2.06           |
| 2017/02/07 16:57 | 5.39       | 404.44     | 2.27           |
| 2017/02/07 17:12 | 5.40       | 405.83     | 2.27           |
| 2017/02/07 17:27 | 5.44       | 410.07     | 2.27           |
| 2017/02/07 17:42 | 5.50       | 415.76     | 2.27           |
| 2017/02/07 17:57 | 5.54       | 429.03     | 2.32           |
| 2017/02/07 18:12 | 5.73       | 449.51     | 2.32           |
| 2017/02/07 18:27 | 5.80       | 503.05     | 2.56           |
| 2017/02/07 18:42 | 6.08       | 553.75     | 2.64           |
| 2017/02/07 18:57 | 6.14       | 577.98     | 2.73           |
| 2017/02/07 19:12 | 6.30       | 635.07     | 2.89           |
| 2017/02/07 19:27 | 6.47       | 657.36     | 2.89           |
| 2017/02/07 19:42 | 6.47       | 657.36     | 2.89           |
| 2017/02/07 19:57 | 6.54       | 666.66     | 2.89           |
| 2017/02/07 20:12 | 6.54       | 668.05     | 2.90           |
| 2017/02/07 20:27 | 6.58       | 673.68     | 2.90           |
| 2017/02/07 20:42 | 6.58       | 689.30     | 2.96           |
| 2017/02/07 20:57 | 6.47       | 727.78     | 3.20           |
| 2017/02/07 21:12 | 6.41       | 742.57     | 3.30           |
| 2017/02/07 21:27 | 6.41       | 744.58     | 3.31           |
| 2017/02/07 21:42 | 6.41       | 744.58     | 3.31           |
| 2017/02/07 21:57 | 6.39       | 740.34     | 3.31           |
| 2017/02/07 22:12 | 6.36       | 672.01     | 3.02           |
| 2017/02/07 22:27 | 6.36       | 672.01     | 3.02           |
| 2017/02/07 22:42 | 6.11       | 620.48     | 2.95           |
| 2017/02/07 22:57 | 6.00       | 605.41     | 2.95           |
| 2017/02/07 23:12 | 5.43       | 526.60     | 2.93           |
| 2017/02/07 23:27 | 5.18       | 485.90     | 2.88           |
| 2017/02/07 23:42 | 4.94       | 450.00     | 2.85           |
| 2017/02/07 23:57 | 4.76       | 394.79     | 2.63           |
| 2017/02/08 00:12 | 4.69       | 359.86     | 2.44           |
| 2017/02/08 00:27 | 4.19       | 284.65     | 2.26           |
| 2017/02/08 00:42 | 3.96       | 247.08     | 2.13           |
| 2017/02/08 00:57 | 3.68       | 202.85     | 1.94           |
| 2017/02/08 01:12 | 3.65       | 196.46     | 1.90           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 01:27 | 3.58       | 187.50     | 1.86           |
| 2017/02/08 01:42 | 3.41       | 175.21     | 1.86           |
| 2017/02/08 01:57 | 3.40       | 177.64     | 1.90           |
| 2017/02/08 02:12 | 3.18       | 146.53     | 1.72           |
| 2017/02/08 02:27 | 3.18       | 146.53     | 1.72           |
| 2017/02/08 02:42 | 3.15       | 152.57     | 1.81           |
| 2017/02/08 02:57 | 3.08       | 147.78     | 1.81           |
| 2017/02/08 03:12 | 3.08       | 153.61     | 1.89           |
| 2017/02/08 03:27 | 3.08       | 152.01     | 1.87           |
| 2017/02/08 03:42 | 3.08       | 152.01     | 1.87           |
| 2017/02/08 03:57 | 3.12       | 154.93     | 1.87           |
| 2017/02/08 04:12 | 3.16       | 157.92     | 1.87           |
| 2017/02/08 04:27 | 3.19       | 159.86     | 1.87           |
| 2017/02/08 04:42 | 3.30       | 167.85     | 1.87           |
| 2017/02/08 04:57 | 3.37       | 153.26     | 1.65           |
| 2017/02/08 05:12 | 3.39       | 150.49     | 1.61           |
| 2017/02/08 05:27 | 3.40       | 151.32     | 1.61           |
| 2017/02/08 05:42 | 3.58       | 162.85     | 1.61           |
| 2017/02/08 05:57 | 3.58       | 189.79     | 1.88           |
| 2017/02/08 06:12 | 3.68       | 197.08     | 1.88           |
| 2017/02/08 06:27 | 3.96       | 261.80     | 2.26           |
| 2017/02/08 06:42 | 4.50       | 332.43     | 2.39           |
| 2017/02/08 06:57 | 4.57       | 355.97     | 2.51           |
| 2017/02/08 07:12 | 4.89       | 430.48     | 2.76           |
| 2017/02/08 07:27 | 5.34       | 486.67     | 2.76           |
| 2017/02/08 07:42 | 6.23       | 607.36     | 2.81           |
| 2017/02/08 07:57 | 6.55       | 659.03     | 2.85           |
| 2017/02/08 08:12 | 6.87       | 701.32     | 2.85           |
| 2017/02/08 08:27 | 6.87       | 701.32     | 2.85           |
| 2017/02/08 08:42 | 6.87       | 701.32     | 2.85           |
| 2017/02/08 08:57 | 6.87       | 798.96     | 3.25           |
| 2017/02/08 09:12 | 6.80       | 788.47     | 3.25           |
| 2017/02/08 09:27 | 6.64       | 763.26     | 3.25           |
| 2017/02/08 09:42 | 6.64       | 717.01     | 3.05           |
| 2017/02/08 09:57 | 6.62       | 715.07     | 3.05           |
| 2017/02/08 10:12 | 6.58       | 709.16     | 3.05           |
| 2017/02/08 10:27 | 6.54       | 696.60     | 3.02           |
| 2017/02/08 10:42 | 6.54       | 668.75     | 2.90           |
| 2017/02/08 10:57 | 6.54       | 635.69     | 2.76           |
| 2017/02/08 11:12 | 6.37       | 646.39     | 2.90           |
| 2017/02/08 11:27 | 6.37       | 657.29     | 2.95           |
| 2017/02/08 11:42 | 5.94       | 598.89     | 2.95           |
| 2017/02/08 11:57 | 5.93       | 597.01     | 2.95           |
| 2017/02/08 12:12 | 5.90       | 593.26     | 2.95           |
| 2017/02/08 12:27 | 5.87       | 590.76     | 2.96           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 12:42 | 5.65       | 560.90     | 2.96           |
| 2017/02/08 12:57 | 5.59       | 589.44     | 3.15           |
| 2017/02/08 13:12 | 5.52       | 544.16     | 2.96           |
| 2017/02/08 13:27 | 5.52       | 520.90     | 2.83           |
| 2017/02/08 13:42 | 5.52       | 476.73     | 2.59           |
| 2017/02/08 13:57 | 5.59       | 484.86     | 2.59           |
| 2017/02/08 14:12 | 5.68       | 494.65     | 2.59           |
| 2017/02/08 14:27 | 5.68       | 494.65     | 2.59           |
| 2017/02/08 14:42 | 5.69       | 496.32     | 2.59           |
| 2017/02/08 14:57 | 5.70       | 502.92     | 2.62           |
| 2017/02/08 15:12 | 5.69       | 501.25     | 2.62           |
| 2017/02/08 15:27 | 5.70       | 521.67     | 2.71           |
| 2017/02/08 15:42 | 5.75       | 560.00     | 2.88           |
| 2017/02/08 15:57 | 5.70       | 521.67     | 2.71           |
| 2017/02/08 16:12 | 5.69       | 552.71     | 2.88           |
| 2017/02/08 16:27 | 5.62       | 543.68     | 2.88           |
| 2017/02/08 16:42 | 5.57       | 517.98     | 2.78           |
| 2017/02/08 16:57 | 5.57       | 535.00     | 2.88           |
| 2017/02/08 17:12 | 5.57       | 535.00     | 2.88           |
| 2017/02/08 17:27 | 5.57       | 517.98     | 2.78           |
| 2017/02/08 17:42 | 5.58       | 530.83     | 2.84           |
| 2017/02/08 17:57 | 5.62       | 524.93     | 2.78           |
| 2017/02/08 18:12 | 5.68       | 530.83     | 2.78           |
| 2017/02/08 18:27 | 5.77       | 543.05     | 2.78           |
| 2017/02/08 18:42 | 6.26       | 604.93     | 2.78           |
| 2017/02/08 18:57 | 6.26       | 604.93     | 2.78           |
| 2017/02/08 19:12 | 6.27       | 621.04     | 2.84           |
| 2017/02/08 19:27 | 6.29       | 677.01     | 3.09           |
| 2017/02/08 19:42 | 6.27       | 679.37     | 3.11           |
| 2017/02/08 19:57 | 6.29       | 701.04     | 3.20           |
| 2017/02/08 20:12 | 6.29       | 707.08     | 3.23           |
| 2017/02/08 20:27 | 6.29       | 707.08     | 3.23           |
| 2017/02/08 20:42 | 6.29       | 707.08     | 3.23           |
| 2017/02/08 20:57 | 6.29       | 701.04     | 3.20           |
| 2017/02/08 21:12 | 6.26       | 650.14     | 2.99           |
| 2017/02/08 21:27 | 6.18       | 638.68     | 2.99           |
| 2017/02/08 21:42 | 6.18       | 638.68     | 2.99           |
| 2017/02/08 21:57 | 6.14       | 632.91     | 2.99           |
| 2017/02/08 22:12 | 6.12       | 662.98     | 3.14           |
| 2017/02/08 22:27 | 6.01       | 646.94     | 3.14           |
| 2017/02/08 22:42 | 6.00       | 645.00     | 3.14           |
| 2017/02/08 22:57 | 5.98       | 642.98     | 3.14           |
| 2017/02/08 23:12 | 5.14       | 486.18     | 2.92           |
| 2017/02/08 23:27 | 5.09       | 479.51     | 2.91           |
| 2017/02/08 23:42 | 4.98       | 456.73     | 2.86           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 23:57 | 4.93       | 409.10     | 2.60           |
| 2017/02/09 00:12 | 4.37       | 337.99     | 2.53           |
| 2017/02/09 00:27 | 4.33       | 317.43     | 2.41           |
| 2017/02/09 00:42 | 4.12       | 285.62     | 2.32           |
| 2017/02/09 00:57 | 4.04       | 276.80     | 2.32           |
| 2017/02/09 01:12 | 3.79       | 253.05     | 2.32           |
| 2017/02/09 01:27 | 3.73       | 241.94     | 2.26           |
| 2017/02/09 01:42 | 3.55       | 225.62     | 2.26           |
| 2017/02/09 01:57 | 3.50       | 220.62     | 2.26           |
| 2017/02/09 02:12 | 3.50       | 207.22     | 2.12           |
| 2017/02/09 02:27 | 3.40       | 199.10     | 2.12           |
| 2017/02/09 02:42 | 3.33       | 193.33     | 2.12           |
| 2017/02/09 02:57 | 3.27       | 168.06     | 1.89           |
| 2017/02/09 03:12 | 3.25       | 153.26     | 1.75           |
| 2017/02/09 03:27 | 3.22       | 147.43     | 1.70           |
| 2017/02/09 03:42 | 3.22       | 147.43     | 1.70           |
| 2017/02/09 03:57 | 3.16       | 143.82     | 1.70           |
| 2017/02/09 04:12 | 3.16       | 143.82     | 1.70           |
| 2017/02/09 04:27 | 3.16       | 153.89     | 1.82           |
| 2017/02/09 04:42 | 3.16       | 153.89     | 1.82           |
| 2017/02/09 04:57 | 3.22       | 161.46     | 1.86           |
| 2017/02/09 05:12 | 3.36       | 171.46     | 1.86           |
| 2017/02/09 05:27 | 3.37       | 172.50     | 1.86           |
| 2017/02/09 05:42 | 3.43       | 176.53     | 1.86           |
| 2017/02/09 05:57 | 3.47       | 205.90     | 2.13           |
| 2017/02/09 06:12 | 3.76       | 236.25     | 2.19           |
| 2017/02/09 06:27 | 4.19       | 277.01     | 2.20           |
| 2017/02/09 06:42 | 4.72       | 334.51     | 2.25           |
| 2017/02/09 06:57 | 4.93       | 411.73     | 2.61           |
| 2017/02/09 07:12 | 5.36       | 466.80     | 2.64           |
| 2017/02/09 07:27 | 5.50       | 500.00     | 2.73           |
| 2017/02/09 07:42 | 6.20       | 588.33     | 2.73           |
| 2017/02/09 07:57 | 6.23       | 599.72     | 2.77           |
| 2017/02/09 08:12 | 6.72       | 756.18     | 3.16           |
| 2017/02/09 08:27 | 6.80       | 796.25     | 3.28           |
| 2017/02/09 08:42 | 6.80       | 796.25     | 3.28           |
| 2017/02/09 08:57 | 6.80       | 796.25     | 3.28           |
| 2017/02/09 09:12 | 6.80       | 802.91     | 3.31           |
| 2017/02/09 09:27 | 6.70       | 781.39     | 3.28           |
| 2017/02/09 09:42 | 6.59       | 737.78     | 3.16           |
| 2017/02/09 09:57 | 6.40       | 736.66     | 3.29           |
| 2017/02/09 10:12 | 6.40       | 633.68     | 2.83           |
| 2017/02/09 10:27 | 6.37       | 732.43     | 3.29           |
| 2017/02/09 10:42 | 6.29       | 719.79     | 3.29           |
| 2017/02/09 10:57 | 6.26       | 715.55     | 3.29           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 11:12 | 6.26       | 715.55     | 3.29           |
| 2017/02/09 11:27 | 6.26       | 715.55     | 3.29           |
| 2017/02/09 11:42 | 6.26       | 720.21     | 3.31           |
| 2017/02/09 11:57 | 6.26       | 720.21     | 3.31           |
| 2017/02/09 12:12 | 6.26       | 720.21     | 3.31           |
| 2017/02/09 12:27 | 6.22       | 692.15     | 3.21           |
| 2017/02/09 12:42 | 6.22       | 692.15     | 3.21           |
| 2017/02/09 12:57 | 6.20       | 690.07     | 3.21           |
| 2017/02/09 13:12 | 6.08       | 671.66     | 3.21           |
| 2017/02/09 13:27 | 6.08       | 649.30     | 3.10           |
| 2017/02/09 13:42 | 6.15       | 628.05     | 2.95           |
| 2017/02/09 13:57 | 6.15       | 628.05     | 2.95           |
| 2017/02/09 14:12 | 6.15       | 628.05     | 2.95           |
| 2017/02/09 14:27 | 6.07       | 607.50     | 2.91           |
| 2017/02/09 14:42 | 5.94       | 552.08     | 2.72           |
| 2017/02/09 14:57 | 5.91       | 548.68     | 2.72           |
| 2017/02/09 15:12 | 5.73       | 526.32     | 2.72           |
| 2017/02/09 15:27 | 5.73       | 526.32     | 2.72           |
| 2017/02/09 15:42 | 5.65       | 516.04     | 2.72           |
| 2017/02/09 15:57 | 5.65       | 551.60     | 2.91           |
| 2017/02/09 16:12 | 5.72       | 579.30     | 3.00           |
| 2017/02/09 16:27 | 5.72       | 580.48     | 3.01           |
| 2017/02/09 16:42 | 5.62       | 580.21     | 3.08           |
| 2017/02/09 16:57 | 5.72       | 593.75     | 3.08           |
| 2017/02/09 17:12 | 5.72       | 596.11     | 3.09           |
| 2017/02/09 17:27 | 5.72       | 600.55     | 3.11           |
| 2017/02/09 17:42 | 5.72       | 596.11     | 3.09           |
| 2017/02/09 17:57 | 5.72       | 593.75     | 3.08           |
| 2017/02/09 18:12 | 5.77       | 603.89     | 3.09           |
| 2017/02/09 18:27 | 5.77       | 578.26     | 2.96           |
| 2017/02/09 18:42 | 5.87       | 636.80     | 3.19           |
| 2017/02/09 18:57 | 5.93       | 647.36     | 3.20           |
| 2017/02/09 19:12 | 5.98       | 635.76     | 3.10           |
| 2017/02/09 19:27 | 6.15       | 669.23     | 3.15           |
| 2017/02/09 19:42 | 6.20       | 688.12     | 3.20           |
| 2017/02/09 19:57 | 6.20       | 688.12     | 3.20           |
| 2017/02/09 20:12 | 6.20       | 688.12     | 3.20           |
| 2017/02/09 20:27 | 6.22       | 679.30     | 3.15           |
| 2017/02/09 20:42 | 6.22       | 679.30     | 3.15           |
| 2017/02/09 20:57 | 6.22       | 702.71     | 3.26           |
| 2017/02/09 21:12 | 6.22       | 702.71     | 3.26           |
| 2017/02/09 21:27 | 6.22       | 705.62     | 3.27           |
| 2017/02/09 21:42 | 6.22       | 653.61     | 3.03           |
| 2017/02/09 21:57 | 6.20       | 651.66     | 3.03           |
| 2017/02/09 22:12 | 6.18       | 603.40     | 2.82           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 22:27 | 5.90       | 567.50     | 2.82           |
| 2017/02/09 22:42 | 5.72       | 544.30     | 2.82           |
| 2017/02/09 22:57 | 5.58       | 526.53     | 2.82           |
| 2017/02/09 23:12 | 5.36       | 493.19     | 2.79           |
| 2017/02/09 23:27 | 4.89       | 434.79     | 2.79           |
| 2017/02/09 23:42 | 4.82       | 418.82     | 2.74           |
| 2017/02/09 23:57 | 4.62       | 395.69     | 2.74           |
| 2017/02/10 00:12 | 4.50       | 359.72     | 2.59           |
| 2017/02/10 00:27 | 4.39       | 344.37     | 2.57           |
| 2017/02/10 00:42 | 4.09       | 285.55     | 2.34           |
| 2017/02/10 00:57 | 3.93       | 264.30     | 2.30           |
| 2017/02/10 01:12 | 3.82       | 253.82     | 2.30           |
| 2017/02/10 01:27 | 3.68       | 240.14     | 2.29           |
| 2017/02/10 01:42 | 3.62       | 235.00     | 2.29           |
| 2017/02/10 01:57 | 3.46       | 216.32     | 2.26           |
| 2017/02/10 02:12 | 3.40       | 209.10     | 2.23           |
| 2017/02/10 02:27 | 3.32       | 184.03     | 2.03           |
| 2017/02/10 02:42 | 3.32       | 184.03     | 2.03           |
| 2017/02/10 02:57 | 3.32       | 164.86     | 1.82           |
| 2017/02/10 03:12 | 3.25       | 158.26     | 1.80           |
| 2017/02/10 03:27 | 3.23       | 157.29     | 1.80           |
| 2017/02/10 03:42 | 3.05       | 142.57     | 1.77           |
| 2017/02/10 03:57 | 3.05       | 144.86     | 1.80           |
| 2017/02/10 04:12 | 3.05       | 144.86     | 1.80           |
| 2017/02/10 04:27 | 3.05       | 142.57     | 1.77           |
| 2017/02/10 04:42 | 3.05       | 111.39     | 1.39           |
| 2017/02/10 04:57 | 3.11       | 105.97     | 1.28           |
| 2017/02/10 05:12 | 3.30       | 115.56     | 1.28           |
| 2017/02/10 05:27 | 3.32       | 119.31     | 1.32           |
| 2017/02/10 05:42 | 3.48       | 127.92     | 1.32           |
| 2017/02/10 05:57 | 3.59       | 140.56     | 1.39           |
| 2017/02/10 06:12 | 3.64       | 228.40     | 2.22           |
| 2017/02/10 06:27 | 3.90       | 263.19     | 2.31           |
| 2017/02/10 06:42 | 4.21       | 317.43     | 2.51           |
| 2017/02/10 06:57 | 4.30       | 341.87     | 2.62           |
| 2017/02/10 07:12 | 4.82       | 430.48     | 2.82           |
| 2017/02/10 07:27 | 5.11       | 466.67     | 2.82           |
| 2017/02/10 07:42 | 6.20       | 630.35     | 2.93           |
| 2017/02/10 07:57 | 6.50       | 676.46     | 2.96           |
| 2017/02/10 08:12 | 6.64       | 763.26     | 3.25           |
| 2017/02/10 08:27 | 6.76       | 796.11     | 3.31           |
| 2017/02/10 08:42 | 6.87       | 813.19     | 3.31           |
| 2017/02/10 08:57 | 6.87       | 798.96     | 3.25           |
| 2017/02/10 09:12 | 6.82       | 809.86     | 3.33           |
| 2017/02/10 09:27 | 6.82       | 790.55     | 3.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 09:42 | 6.80       | 788.47     | 3.25           |
| 2017/02/10 09:57 | 6.80       | 807.71     | 3.33           |
| 2017/02/10 10:12 | 6.70       | 773.40     | 3.25           |
| 2017/02/10 10:27 | 6.57       | 771.25     | 3.33           |
| 2017/02/10 10:42 | 6.51       | 762.64     | 3.33           |
| 2017/02/10 10:57 | 6.43       | 739.86     | 3.28           |
| 2017/02/10 11:12 | 6.41       | 737.71     | 3.28           |
| 2017/02/10 11:27 | 6.36       | 721.18     | 3.25           |
| 2017/02/10 11:42 | 6.36       | 650.62     | 2.93           |
| 2017/02/10 11:57 | 6.36       | 643.19     | 2.89           |
| 2017/02/10 12:12 | 6.25       | 628.33     | 2.89           |
| 2017/02/10 12:27 | 6.16       | 624.37     | 2.93           |
| 2017/02/10 12:42 | 6.02       | 598.75     | 2.89           |
| 2017/02/10 12:57 | 6.02       | 590.28     | 2.85           |
| 2017/02/10 13:12 | 6.01       | 603.89     | 2.93           |
| 2017/02/10 13:27 | 6.00       | 586.60     | 2.85           |
| 2017/02/10 13:42 | 6.00       | 586.60     | 2.85           |
| 2017/02/10 13:57 | 5.97       | 577.36     | 2.83           |
| 2017/02/10 14:12 | 5.95       | 575.62     | 2.83           |
| 2017/02/10 14:27 | 5.94       | 573.82     | 2.83           |
| 2017/02/10 14:42 | 5.91       | 588.40     | 2.92           |
| 2017/02/10 14:57 | 5.83       | 557.64     | 2.82           |
| 2017/02/10 15:12 | 5.69       | 539.86     | 2.82           |
| 2017/02/10 15:27 | 5.69       | 558.89     | 2.92           |
| 2017/02/10 15:42 | 5.69       | 581.66     | 3.04           |
| 2017/02/10 15:57 | 5.68       | 579.79     | 3.04           |
| 2017/02/10 16:12 | 5.68       | 579.79     | 3.04           |
| 2017/02/10 16:27 | 5.69       | 549.79     | 2.87           |
| 2017/02/10 16:42 | 5.75       | 589.30     | 3.04           |
| 2017/02/10 16:57 | 5.79       | 596.87     | 3.04           |
| 2017/02/10 17:12 | 5.97       | 630.41     | 3.09           |
| 2017/02/10 17:27 | 5.97       | 621.94     | 3.04           |
| 2017/02/10 17:42 | 6.08       | 637.50     | 3.04           |
| 2017/02/10 17:57 | 6.08       | 644.79     | 3.08           |
| 2017/02/10 18:12 | 6.04       | 638.96     | 3.08           |
| 2017/02/10 18:27 | 6.04       | 586.39     | 2.83           |
| 2017/02/10 18:42 | 6.09       | 593.61     | 2.83           |
| 2017/02/10 18:57 | 6.09       | 556.73     | 2.65           |
| 2017/02/10 19:12 | 6.18       | 566.87     | 2.65           |
| 2017/02/10 19:27 | 6.54       | 643.82     | 2.79           |
| 2017/02/10 19:42 | 6.54       | 643.82     | 2.79           |
| 2017/02/10 19:57 | 6.54       | 703.26     | 3.05           |
| 2017/02/10 20:12 | 6.54       | 703.26     | 3.05           |
| 2017/02/10 20:27 | 6.43       | 687.57     | 3.05           |
| 2017/02/10 20:42 | 6.37       | 679.72     | 3.05           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 20:57 | 6.36       | 677.78     | 3.05           |
| 2017/02/10 21:12 | 6.32       | 671.87     | 3.05           |
| 2017/02/10 21:27 | 6.30       | 636.11     | 2.90           |
| 2017/02/10 21:42 | 6.23       | 621.53     | 2.87           |
| 2017/02/10 21:57 | 6.02       | 599.10     | 2.90           |
| 2017/02/10 22:12 | 5.82       | 566.73     | 2.87           |
| 2017/02/10 22:27 | 5.57       | 534.16     | 2.87           |
| 2017/02/10 22:42 | 5.39       | 496.39     | 2.79           |
| 2017/02/10 22:57 | 4.84       | 418.40     | 2.72           |
| 2017/02/10 23:12 | 4.79       | 411.80     | 2.72           |
| 2017/02/10 23:27 | 4.77       | 395.00     | 2.62           |
| 2017/02/10 23:42 | 4.73       | 359.10     | 2.41           |
| 2017/02/10 23:57 | 4.57       | 341.74     | 2.41           |
| 2017/02/11 00:12 | 4.47       | 331.67     | 2.41           |
| 2017/02/11 00:27 | 4.44       | 328.40     | 2.41           |
| 2017/02/11 00:42 | 4.32       | 315.62     | 2.41           |
| 2017/02/11 00:57 | 4.22       | 283.26     | 2.23           |
| 2017/02/11 01:12 | 4.12       | 267.57     | 2.18           |
| 2017/02/11 01:27 | 3.82       | 229.93     | 2.08           |
| 2017/02/11 01:42 | 3.75       | 215.69     | 2.01           |
| 2017/02/11 01:57 | 3.37       | 171.67     | 1.85           |
| 2017/02/11 02:12 | 3.23       | 138.75     | 1.59           |
| 2017/02/11 02:27 | 3.23       | 138.75     | 1.59           |
| 2017/02/11 02:42 | 3.23       | 138.75     | 1.59           |
| 2017/02/11 02:57 | 3.22       | 137.92     | 1.59           |
| 2017/02/11 03:12 | 3.22       | 137.92     | 1.59           |
| 2017/02/11 03:27 | 3.21       | 149.44     | 1.73           |
| 2017/02/11 03:42 | 3.21       | 159.72     | 1.85           |
| 2017/02/11 03:57 | 3.15       | 157.92     | 1.88           |
| 2017/02/11 04:12 | 3.12       | 153.82     | 1.85           |
| 2017/02/11 04:27 | 3.09       | 166.11     | 2.03           |
| 2017/02/11 04:42 | 3.09       | 166.11     | 2.03           |
| 2017/02/11 04:57 | 3.09       | 167.50     | 2.04           |
| 2017/02/11 05:12 | 3.09       | 167.50     | 2.04           |
| 2017/02/11 05:27 | 3.14       | 170.69     | 2.04           |
| 2017/02/11 05:42 | 3.25       | 179.37     | 2.04           |
| 2017/02/11 05:57 | 3.26       | 183.19     | 2.07           |
| 2017/02/11 06:12 | 3.32       | 187.64     | 2.07           |
| 2017/02/11 06:27 | 3.43       | 200.00     | 2.11           |
| 2017/02/11 06:42 | 3.57       | 208.05     | 2.07           |
| 2017/02/11 06:57 | 3.65       | 234.86     | 2.27           |
| 2017/02/11 07:12 | 3.91       | 259.17     | 2.27           |
| 2017/02/11 07:27 | 3.91       | 282.71     | 2.47           |
| 2017/02/11 07:42 | 4.26       | 345.90     | 2.69           |
| 2017/02/11 07:57 | 4.41       | 373.19     | 2.76           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 08:12 | 4.73       | 411.18     | 2.76           |
| 2017/02/11 08:27 | 5.27       | 479.37     | 2.77           |
| 2017/02/11 08:42 | 5.90       | 558.61     | 2.78           |
| 2017/02/11 08:57 | 5.93       | 632.57     | 3.13           |
| 2017/02/11 09:12 | 6.30       | 686.39     | 3.13           |
| 2017/02/11 09:27 | 6.52       | 718.47     | 3.13           |
| 2017/02/11 09:42 | 6.69       | 742.64     | 3.13           |
| 2017/02/11 09:57 | 6.79       | 672.57     | 2.78           |
| 2017/02/11 10:12 | 6.80       | 643.61     | 2.65           |
| 2017/02/11 10:27 | 6.83       | 647.01     | 2.65           |
| 2017/02/11 10:42 | 6.93       | 659.03     | 2.65           |
| 2017/02/11 10:57 | 6.89       | 653.89     | 2.65           |
| 2017/02/11 11:12 | 6.89       | 755.48     | 3.06           |
| 2017/02/11 11:27 | 6.93       | 659.03     | 2.65           |
| 2017/02/11 11:42 | 7.01       | 773.33     | 3.06           |
| 2017/02/11 11:57 | 7.01       | 779.86     | 3.09           |
| 2017/02/11 12:12 | 6.93       | 767.91     | 3.09           |
| 2017/02/11 12:27 | 6.89       | 755.48     | 3.06           |
| 2017/02/11 12:42 | 6.79       | 741.66     | 3.06           |
| 2017/02/11 12:57 | 6.76       | 716.73     | 2.98           |
| 2017/02/11 13:12 | 6.73       | 740.28     | 3.09           |
| 2017/02/11 13:27 | 6.72       | 738.33     | 3.09           |
| 2017/02/11 13:42 | 6.57       | 716.39     | 3.09           |
| 2017/02/11 13:57 | 6.44       | 698.47     | 3.09           |
| 2017/02/11 14:12 | 6.44       | 698.47     | 3.09           |
| 2017/02/11 14:27 | 6.43       | 696.53     | 3.09           |
| 2017/02/11 14:42 | 6.40       | 695.28     | 3.10           |
| 2017/02/11 14:57 | 6.26       | 675.35     | 3.10           |
| 2017/02/11 15:12 | 6.26       | 663.40     | 3.05           |
| 2017/02/11 15:27 | 6.25       | 661.46     | 3.05           |
| 2017/02/11 15:42 | 6.22       | 657.57     | 3.05           |
| 2017/02/11 15:57 | 6.20       | 676.94     | 3.15           |
| 2017/02/11 16:12 | 6.20       | 679.93     | 3.16           |
| 2017/02/11 16:27 | 6.16       | 670.90     | 3.15           |
| 2017/02/11 16:42 | 6.16       | 673.89     | 3.16           |
| 2017/02/11 16:57 | 6.16       | 673.89     | 3.16           |
| 2017/02/11 17:12 | 6.20       | 686.18     | 3.19           |
| 2017/02/11 17:27 | 6.16       | 695.62     | 3.26           |
| 2017/02/11 17:42 | 6.20       | 679.93     | 3.16           |
| 2017/02/11 17:57 | 6.25       | 689.93     | 3.18           |
| 2017/02/11 18:12 | 6.27       | 694.03     | 3.18           |
| 2017/02/11 18:27 | 6.25       | 678.05     | 3.12           |
| 2017/02/11 18:42 | 6.25       | 689.93     | 3.18           |
| 2017/02/11 18:57 | 6.30       | 698.12     | 3.18           |
| 2017/02/11 19:12 | 6.30       | 698.12     | 3.18           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 19:27 | 6.30       | 698.12     | 3.18           |
| 2017/02/11 19:42 | 6.16       | 666.04     | 3.12           |
| 2017/02/11 19:57 | 6.00       | 642.15     | 3.12           |
| 2017/02/11 20:12 | 6.00       | 586.94     | 2.86           |
| 2017/02/11 20:27 | 5.84       | 567.01     | 2.86           |
| 2017/02/11 20:42 | 5.77       | 517.98     | 2.65           |
| 2017/02/11 20:57 | 5.70       | 509.65     | 2.65           |
| 2017/02/11 21:12 | 5.55       | 517.36     | 2.79           |
| 2017/02/11 21:27 | 5.48       | 495.83     | 2.72           |
| 2017/02/11 21:42 | 5.21       | 462.01     | 2.72           |
| 2017/02/11 21:57 | 5.21       | 473.89     | 2.79           |
| 2017/02/11 22:12 | 5.16       | 468.75     | 2.79           |
| 2017/02/11 22:27 | 5.16       | 468.75     | 2.79           |
| 2017/02/11 22:42 | 5.12       | 474.23     | 2.86           |
| 2017/02/11 22:57 | 5.01       | 438.54     | 2.72           |
| 2017/02/11 23:12 | 4.98       | 445.69     | 2.79           |
| 2017/02/11 23:27 | 4.93       | 438.89     | 2.79           |
| 2017/02/11 23:42 | 4.82       | 424.44     | 2.78           |
| 2017/02/11 23:57 | 4.75       | 404.86     | 2.71           |
| 2017/02/12 00:12 | 4.61       | 388.54     | 2.71           |
| 2017/02/12 00:27 | 4.44       | 336.53     | 2.47           |
| 2017/02/12 00:42 | 4.21       | 311.87     | 2.47           |
| 2017/02/12 00:57 | 4.15       | 302.36     | 2.44           |
| 2017/02/12 01:12 | 3.93       | 269.37     | 2.34           |
| 2017/02/12 01:27 | 3.83       | 256.32     | 2.31           |
| 2017/02/12 01:42 | 3.79       | 252.43     | 2.31           |
| 2017/02/12 01:57 | 3.57       | 227.29     | 2.27           |
| 2017/02/12 02:12 | 3.52       | 214.10     | 2.17           |
| 2017/02/12 02:27 | 3.48       | 188.61     | 1.94           |
| 2017/02/12 02:42 | 3.43       | 183.05     | 1.93           |
| 2017/02/12 02:57 | 3.40       | 180.97     | 1.93           |
| 2017/02/12 03:12 | 3.40       | 180.97     | 1.93           |
| 2017/02/12 03:27 | 3.32       | 174.65     | 1.93           |
| 2017/02/12 03:42 | 3.32       | 168.75     | 1.86           |
| 2017/02/12 03:57 | 3.29       | 163.89     | 1.83           |
| 2017/02/12 04:12 | 3.29       | 154.31     | 1.73           |
| 2017/02/12 04:27 | 3.29       | 163.89     | 1.83           |
| 2017/02/12 04:42 | 3.23       | 159.93     | 1.83           |
| 2017/02/12 04:57 | 3.23       | 159.93     | 1.83           |
| 2017/02/12 05:12 | 3.23       | 159.93     | 1.83           |
| 2017/02/12 05:27 | 3.23       | 161.67     | 1.85           |
| 2017/02/12 05:42 | 3.23       | 163.12     | 1.87           |
| 2017/02/12 05:57 | 3.27       | 186.87     | 2.10           |
| 2017/02/12 06:12 | 3.29       | 191.94     | 2.15           |
| 2017/02/12 06:27 | 3.29       | 193.33     | 2.16           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 06:42 | 3.36       | 203.12     | 2.20           |
| 2017/02/12 06:57 | 3.37       | 204.30     | 2.20           |
| 2017/02/12 07:12 | 3.52       | 233.05     | 2.36           |
| 2017/02/12 07:27 | 3.94       | 279.17     | 2.42           |
| 2017/02/12 07:42 | 4.00       | 287.43     | 2.44           |
| 2017/02/12 07:57 | 4.23       | 328.40     | 2.57           |
| 2017/02/12 08:12 | 4.75       | 397.29     | 2.66           |
| 2017/02/12 08:27 | 4.96       | 421.46     | 2.66           |
| 2017/02/12 08:42 | 5.40       | 478.82     | 2.68           |
| 2017/02/12 08:57 | 5.55       | 497.29     | 2.68           |
| 2017/02/12 09:12 | 6.11       | 565.14     | 2.68           |
| 2017/02/12 09:27 | 6.22       | 635.48     | 2.95           |
| 2017/02/12 09:42 | 6.23       | 653.89     | 3.02           |
| 2017/02/12 09:57 | 6.65       | 712.15     | 3.02           |
| 2017/02/12 10:12 | 6.66       | 714.09     | 3.02           |
| 2017/02/12 10:27 | 6.79       | 756.04     | 3.12           |
| 2017/02/12 10:42 | 6.95       | 780.28     | 3.12           |
| 2017/02/12 10:57 | 6.95       | 780.28     | 3.12           |
| 2017/02/12 11:12 | 6.95       | 780.28     | 3.12           |
| 2017/02/12 11:27 | 6.94       | 726.53     | 2.91           |
| 2017/02/12 11:42 | 6.94       | 699.51     | 2.81           |
| 2017/02/12 11:57 | 6.94       | 699.51     | 2.81           |
| 2017/02/12 12:12 | 6.94       | 699.51     | 2.81           |
| 2017/02/12 12:27 | 6.86       | 688.61     | 2.81           |
| 2017/02/12 12:42 | 6.76       | 753.12     | 3.13           |
| 2017/02/12 12:57 | 6.65       | 736.94     | 3.13           |
| 2017/02/12 13:12 | 6.59       | 728.89     | 3.13           |
| 2017/02/12 13:27 | 6.59       | 728.89     | 3.13           |
| 2017/02/12 13:42 | 6.57       | 730.90     | 3.15           |
| 2017/02/12 13:57 | 6.51       | 722.78     | 3.15           |
| 2017/02/12 14:12 | 6.51       | 726.94     | 3.17           |
| 2017/02/12 14:27 | 6.51       | 727.98     | 3.18           |
| 2017/02/12 14:42 | 6.51       | 735.00     | 3.21           |
| 2017/02/12 14:57 | 6.51       | 735.00     | 3.21           |
| 2017/02/12 15:12 | 6.40       | 747.22     | 3.33           |
| 2017/02/12 15:27 | 6.40       | 725.00     | 3.23           |
| 2017/02/12 15:42 | 6.23       | 693.89     | 3.21           |
| 2017/02/12 15:57 | 6.19       | 687.71     | 3.21           |
| 2017/02/12 16:12 | 6.19       | 693.96     | 3.23           |
| 2017/02/12 16:27 | 6.23       | 646.94     | 2.99           |
| 2017/02/12 16:42 | 6.32       | 677.98     | 3.08           |
| 2017/02/12 16:57 | 6.32       | 656.11     | 2.98           |
| 2017/02/12 17:12 | 6.25       | 625.35     | 2.88           |
| 2017/02/12 17:27 | 6.25       | 618.75     | 2.85           |
| 2017/02/12 17:42 | 6.26       | 620.55     | 2.85           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 17:57 | 6.26       | 606.60     | 2.79           |
| 2017/02/12 18:12 | 6.26       | 606.60     | 2.79           |
| 2017/02/12 18:27 | 6.26       | 600.62     | 2.76           |
| 2017/02/12 18:42 | 6.32       | 607.71     | 2.76           |
| 2017/02/12 18:57 | 6.36       | 612.98     | 2.76           |
| 2017/02/12 19:12 | 6.39       | 524.17     | 2.35           |
| 2017/02/12 19:27 | 6.39       | 524.17     | 2.35           |
| 2017/02/12 19:42 | 6.36       | 613.33     | 2.76           |
| 2017/02/12 19:57 | 6.32       | 619.10     | 2.81           |
| 2017/02/12 20:12 | 6.25       | 641.25     | 2.95           |
| 2017/02/12 20:27 | 6.18       | 631.80     | 2.95           |
| 2017/02/12 20:42 | 6.11       | 599.86     | 2.85           |
| 2017/02/12 20:57 | 6.11       | 622.36     | 2.95           |
| 2017/02/12 21:12 | 6.08       | 618.61     | 2.95           |
| 2017/02/12 21:27 | 6.11       | 599.86     | 2.85           |
| 2017/02/12 21:42 | 6.11       | 649.10     | 3.08           |
| 2017/02/12 21:57 | 6.04       | 590.83     | 2.85           |
| 2017/02/12 22:12 | 6.04       | 590.83     | 2.85           |
| 2017/02/12 22:27 | 5.70       | 566.87     | 2.95           |
| 2017/02/12 22:42 | 5.23       | 459.10     | 2.68           |
| 2017/02/12 22:57 | 5.12       | 438.96     | 2.64           |
| 2017/02/12 23:12 | 5.02       | 426.67     | 2.64           |
| 2017/02/12 23:27 | 4.98       | 421.80     | 2.64           |
| 2017/02/12 23:42 | 4.71       | 382.98     | 2.59           |
| 2017/02/12 23:57 | 4.25       | 322.08     | 2.51           |
| 2017/02/13 00:12 | 4.23       | 309.10     | 2.42           |
| 2017/02/13 00:27 | 4.23       | 301.11     | 2.36           |
| 2017/02/13 00:42 | 3.98       | 276.53     | 2.36           |
| 2017/02/13 00:57 | 3.90       | 265.97     | 2.34           |
| 2017/02/13 01:12 | 3.83       | 259.37     | 2.34           |
| 2017/02/13 01:27 | 3.65       | 233.12     | 2.25           |
| 2017/02/13 01:42 | 3.64       | 228.54     | 2.22           |
| 2017/02/13 01:57 | 3.64       | 228.54     | 2.22           |
| 2017/02/13 02:12 | 3.40       | 197.22     | 2.10           |
| 2017/02/13 02:27 | 3.40       | 195.28     | 2.08           |
| 2017/02/13 02:42 | 3.21       | 179.58     | 2.08           |
| 2017/02/13 02:57 | 3.14       | 163.47     | 1.96           |
| 2017/02/13 03:12 | 3.12       | 162.43     | 1.96           |
| 2017/02/13 03:27 | 3.07       | 164.51     | 2.03           |
| 2017/02/13 03:42 | 3.07       | 164.51     | 2.03           |
| 2017/02/13 03:57 | 3.07       | 164.51     | 2.03           |
| 2017/02/13 04:12 | 3.08       | 176.11     | 2.16           |
| 2017/02/13 04:27 | 3.08       | 172.29     | 2.11           |
| 2017/02/13 04:42 | 3.11       | 174.51     | 2.11           |
| 2017/02/13 04:57 | 3.21       | 175.21     | 2.03           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 05:12 | 3.25       | 174.86     | 1.99           |
| 2017/02/13 05:27 | 3.37       | 184.37     | 1.99           |
| 2017/02/13 05:42 | 3.41       | 187.78     | 1.99           |
| 2017/02/13 05:57 | 3.71       | 210.83     | 1.99           |
| 2017/02/13 06:12 | 3.72       | 211.94     | 1.99           |
| 2017/02/13 06:27 | 3.94       | 255.55     | 2.21           |
| 2017/02/13 06:42 | 4.29       | 290.00     | 2.23           |
| 2017/02/13 06:57 | 4.76       | 343.68     | 2.29           |
| 2017/02/13 07:12 | 5.29       | 463.89     | 2.67           |
| 2017/02/13 07:27 | 5.70       | 525.21     | 2.73           |
| 2017/02/13 07:42 | 6.00       | 561.53     | 2.73           |
| 2017/02/13 07:57 | 6.51       | 626.25     | 2.73           |
| 2017/02/13 08:12 | 6.69       | 750.28     | 3.16           |
| 2017/02/13 08:27 | 6.69       | 775.28     | 3.26           |
| 2017/02/13 08:42 | 6.69       | 775.28     | 3.26           |
| 2017/02/13 08:57 | 6.69       | 750.28     | 3.16           |
| 2017/02/13 09:12 | 6.69       | 715.83     | 3.01           |
| 2017/02/13 09:27 | 6.66       | 746.18     | 3.16           |
| 2017/02/13 09:42 | 6.64       | 758.26     | 3.23           |
| 2017/02/13 09:57 | 6.57       | 735.48     | 3.17           |
| 2017/02/13 10:12 | 6.57       | 709.30     | 3.06           |
| 2017/02/13 10:27 | 6.57       | 735.48     | 3.17           |
| 2017/02/13 10:42 | 6.57       | 735.48     | 3.17           |
| 2017/02/13 10:57 | 6.57       | 747.84     | 3.23           |
| 2017/02/13 11:12 | 6.55       | 745.76     | 3.23           |
| 2017/02/13 11:27 | 6.55       | 772.22     | 3.34           |
| 2017/02/13 11:42 | 6.44       | 755.76     | 3.34           |
| 2017/02/13 11:57 | 6.26       | 727.84     | 3.34           |
| 2017/02/13 12:12 | 6.16       | 712.22     | 3.34           |
| 2017/02/13 12:27 | 6.15       | 710.14     | 3.34           |
| 2017/02/13 12:42 | 6.15       | 637.43     | 3.00           |
| 2017/02/13 12:57 | 6.12       | 625.55     | 2.96           |
| 2017/02/13 13:12 | 6.05       | 604.03     | 2.90           |
| 2017/02/13 13:27 | 5.94       | 576.60     | 2.84           |
| 2017/02/13 13:42 | 5.70       | 546.04     | 2.84           |
| 2017/02/13 13:57 | 5.68       | 513.33     | 2.69           |
| 2017/02/13 14:12 | 5.59       | 503.19     | 2.69           |
| 2017/02/13 14:27 | 5.54       | 488.26     | 2.64           |
| 2017/02/13 14:42 | 5.54       | 488.26     | 2.64           |
| 2017/02/13 14:57 | 5.54       | 514.44     | 2.78           |
| 2017/02/13 15:12 | 5.59       | 521.46     | 2.78           |
| 2017/02/13 15:27 | 5.69       | 530.48     | 2.77           |
| 2017/02/13 15:42 | 5.69       | 533.75     | 2.78           |
| 2017/02/13 15:57 | 5.76       | 539.23     | 2.77           |
| 2017/02/13 16:12 | 5.80       | 547.78     | 2.78           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 16:27 | 5.80       | 560.97     | 2.85           |
| 2017/02/13 16:42 | 5.80       | 544.51     | 2.77           |
| 2017/02/13 16:57 | 5.80       | 560.97     | 2.85           |
| 2017/02/13 17:12 | 5.75       | 553.75     | 2.85           |
| 2017/02/13 17:27 | 5.80       | 543.61     | 2.76           |
| 2017/02/13 17:42 | 5.80       | 543.61     | 2.76           |
| 2017/02/13 17:57 | 5.80       | 537.57     | 2.73           |
| 2017/02/13 18:12 | 5.80       | 537.57     | 2.73           |
| 2017/02/13 18:27 | 5.83       | 547.08     | 2.76           |
| 2017/02/13 18:42 | 5.90       | 555.83     | 2.76           |
| 2017/02/13 18:57 | 6.20       | 614.23     | 2.86           |
| 2017/02/13 19:12 | 6.20       | 644.79     | 3.00           |
| 2017/02/13 19:27 | 6.26       | 652.43     | 3.00           |
| 2017/02/13 19:42 | 6.32       | 661.46     | 3.00           |
| 2017/02/13 19:57 | 6.37       | 669.16     | 3.00           |
| 2017/02/13 20:12 | 6.39       | 733.54     | 3.28           |
| 2017/02/13 20:27 | 6.39       | 733.54     | 3.28           |
| 2017/02/13 20:42 | 6.44       | 741.94     | 3.28           |
| 2017/02/13 20:57 | 6.48       | 738.19     | 3.24           |
| 2017/02/13 21:12 | 6.44       | 746.11     | 3.30           |
| 2017/02/13 21:27 | 6.44       | 746.11     | 3.30           |
| 2017/02/13 21:42 | 6.43       | 729.86     | 3.24           |
| 2017/02/13 21:57 | 6.43       | 726.46     | 3.22           |
| 2017/02/13 22:12 | 6.11       | 653.89     | 3.10           |
| 2017/02/13 22:27 | 6.11       | 643.26     | 3.05           |
| 2017/02/13 22:42 | 5.90       | 610.76     | 3.04           |
| 2017/02/13 22:57 | 5.72       | 534.03     | 2.77           |
| 2017/02/13 23:12 | 5.22       | 424.65     | 2.49           |
| 2017/02/13 23:27 | 5.14       | 415.42     | 2.49           |
| 2017/02/13 23:42 | 4.93       | 383.61     | 2.44           |
| 2017/02/13 23:57 | 4.59       | 344.58     | 2.41           |
| 2017/02/14 00:12 | 4.46       | 326.04     | 2.38           |
| 2017/02/14 00:27 | 4.33       | 312.57     | 2.37           |
| 2017/02/14 00:42 | 4.12       | 291.80     | 2.37           |
| 2017/02/14 00:57 | 3.83       | 263.26     | 2.37           |
| 2017/02/14 01:12 | 3.72       | 242.15     | 2.28           |
| 2017/02/14 01:27 | 3.52       | 216.18     | 2.19           |
| 2017/02/14 01:42 | 3.47       | 202.22     | 2.10           |
| 2017/02/14 01:57 | 3.44       | 192.22     | 2.02           |
| 2017/02/14 02:12 | 3.40       | 182.92     | 1.95           |
| 2017/02/14 02:27 | 3.34       | 178.68     | 1.95           |
| 2017/02/14 02:42 | 3.26       | 172.43     | 1.95           |
| 2017/02/14 02:57 | 3.14       | 163.33     | 1.95           |
| 2017/02/14 03:12 | 3.12       | 162.29     | 1.95           |
| 2017/02/14 03:27 | 3.12       | 162.29     | 1.95           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 03:42 | 3.11       | 161.25     | 1.95           |
| 2017/02/14 03:57 | 3.11       | 162.29     | 1.97           |
| 2017/02/14 04:12 | 3.11       | 162.29     | 1.97           |
| 2017/02/14 04:27 | 3.12       | 169.17     | 2.04           |
| 2017/02/14 04:42 | 3.15       | 165.42     | 1.97           |
| 2017/02/14 04:57 | 3.16       | 166.46     | 1.97           |
| 2017/02/14 05:12 | 3.21       | 169.58     | 1.97           |
| 2017/02/14 05:27 | 3.22       | 171.25     | 1.97           |
| 2017/02/14 05:42 | 3.41       | 194.37     | 2.06           |
| 2017/02/14 05:57 | 3.44       | 196.60     | 2.06           |
| 2017/02/14 06:12 | 3.73       | 232.64     | 2.17           |
| 2017/02/14 06:27 | 4.25       | 288.61     | 2.25           |
| 2017/02/14 06:42 | 4.47       | 313.40     | 2.28           |
| 2017/02/14 06:57 | 4.75       | 367.64     | 2.46           |
| 2017/02/14 07:12 | 5.22       | 434.03     | 2.55           |
| 2017/02/14 07:27 | 5.80       | 487.15     | 2.48           |
| 2017/02/14 07:42 | 6.52       | 569.37     | 2.48           |
| 2017/02/14 07:57 | 6.76       | 765.97     | 3.18           |
| 2017/02/14 08:12 | 6.76       | 765.97     | 3.18           |
| 2017/02/14 08:27 | 6.76       | 765.97     | 3.18           |
| 2017/02/14 08:42 | 6.84       | 764.51     | 3.12           |
| 2017/02/14 08:57 | 6.90       | 772.57     | 3.12           |
| 2017/02/14 09:12 | 6.90       | 772.57     | 3.12           |
| 2017/02/14 09:27 | 6.75       | 750.34     | 3.12           |
| 2017/02/14 09:42 | 6.73       | 620.41     | 2.59           |
| 2017/02/14 09:57 | 6.73       | 574.30     | 2.40           |
| 2017/02/14 10:12 | 6.73       | 574.30     | 2.40           |
| 2017/02/14 10:27 | 6.52       | 551.11     | 2.40           |
| 2017/02/14 10:42 | 6.47       | 545.00     | 2.40           |
| 2017/02/14 10:57 | 6.41       | 538.82     | 2.40           |
| 2017/02/14 11:12 | 6.41       | 538.82     | 2.40           |
| 2017/02/14 11:27 | 6.34       | 591.94     | 2.67           |
| 2017/02/14 11:42 | 6.23       | 586.18     | 2.71           |
| 2017/02/14 11:57 | 6.23       | 708.75     | 3.27           |
| 2017/02/14 12:12 | 6.18       | 580.28     | 2.71           |
| 2017/02/14 12:27 | 6.18       | 600.83     | 2.81           |
| 2017/02/14 12:42 | 6.16       | 603.89     | 2.83           |
| 2017/02/14 12:57 | 6.11       | 592.50     | 2.81           |
| 2017/02/14 13:12 | 6.16       | 603.89     | 2.83           |
| 2017/02/14 13:27 | 6.16       | 599.65     | 2.81           |
| 2017/02/14 13:42 | 6.11       | 592.50     | 2.81           |
| 2017/02/14 13:57 | 6.11       | 592.50     | 2.81           |
| 2017/02/14 14:12 | 6.11       | 596.66     | 2.83           |
| 2017/02/14 14:27 | 5.80       | 553.19     | 2.81           |
| 2017/02/14 14:42 | 5.80       | 580.48     | 2.95           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 14:57 | 5.73       | 541.94     | 2.80           |
| 2017/02/14 15:12 | 5.58       | 553.89     | 2.97           |
| 2017/02/14 15:27 | 5.58       | 482.15     | 2.58           |
| 2017/02/14 15:42 | 5.50       | 542.71     | 2.97           |
| 2017/02/14 15:57 | 5.50       | 542.71     | 2.97           |
| 2017/02/14 16:12 | 5.41       | 531.60     | 2.97           |
| 2017/02/14 16:27 | 5.41       | 531.60     | 2.97           |
| 2017/02/14 16:42 | 5.41       | 538.19     | 3.00           |
| 2017/02/14 16:57 | 5.51       | 551.32     | 3.00           |
| 2017/02/14 17:12 | 5.55       | 568.82     | 3.07           |
| 2017/02/14 17:27 | 5.79       | 601.66     | 3.07           |
| 2017/02/14 17:42 | 5.79       | 618.12     | 3.15           |
| 2017/02/14 17:57 | 5.79       | 618.12     | 3.15           |
| 2017/02/14 18:12 | 5.79       | 618.12     | 3.15           |
| 2017/02/14 18:27 | 5.86       | 615.62     | 3.09           |
| 2017/02/14 18:42 | 5.86       | 615.62     | 3.09           |
| 2017/02/14 18:57 | 6.01       | 614.58     | 2.98           |
| 2017/02/14 19:12 | 6.01       | 614.58     | 2.98           |
| 2017/02/14 19:27 | 6.05       | 620.28     | 2.98           |
| 2017/02/14 19:42 | 6.15       | 614.44     | 2.89           |
| 2017/02/14 19:57 | 6.18       | 618.12     | 2.89           |
| 2017/02/14 20:12 | 6.19       | 650.69     | 3.03           |
| 2017/02/14 20:27 | 6.19       | 651.39     | 3.04           |
| 2017/02/14 20:42 | 6.19       | 658.26     | 3.07           |
| 2017/02/14 20:57 | 6.18       | 656.32     | 3.07           |
| 2017/02/14 21:12 | 6.15       | 658.19     | 3.10           |
| 2017/02/14 21:27 | 6.09       | 650.28     | 3.10           |
| 2017/02/14 21:42 | 6.04       | 636.73     | 3.07           |
| 2017/02/14 21:57 | 5.91       | 619.16     | 3.07           |
| 2017/02/14 22:12 | 5.58       | 569.51     | 3.05           |
| 2017/02/14 22:27 | 5.58       | 554.44     | 2.97           |
| 2017/02/14 22:42 | 5.50       | 518.19     | 2.83           |
| 2017/02/14 22:57 | 5.16       | 458.75     | 2.73           |
| 2017/02/14 23:12 | 5.14       | 455.35     | 2.73           |
| 2017/02/14 23:27 | 5.00       | 430.48     | 2.68           |
| 2017/02/14 23:42 | 4.79       | 389.65     | 2.57           |
| 2017/02/14 23:57 | 4.58       | 358.61     | 2.52           |
| 2017/02/15 00:12 | 4.27       | 312.78     | 2.42           |
| 2017/02/15 00:27 | 4.25       | 304.65     | 2.38           |
| 2017/02/15 00:42 | 4.11       | 288.19     | 2.35           |
| 2017/02/15 00:57 | 3.97       | 265.76     | 2.28           |
| 2017/02/15 01:12 | 3.66       | 224.03     | 2.15           |
| 2017/02/15 01:27 | 3.61       | 214.10     | 2.10           |
| 2017/02/15 01:42 | 3.33       | 181.80     | 2.00           |
| 2017/02/15 01:57 | 3.26       | 150.83     | 1.71           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 02:12 | 3.18       | 159.44     | 1.87           |
| 2017/02/15 02:27 | 3.11       | 154.44     | 1.87           |
| 2017/02/15 02:42 | 3.07       | 150.28     | 1.86           |
| 2017/02/15 02:57 | 3.07       | 150.28     | 1.86           |
| 2017/02/15 03:12 | 3.07       | 150.28     | 1.86           |
| 2017/02/15 03:27 | 3.05       | 149.31     | 1.86           |
| 2017/02/15 03:42 | 3.00       | 146.67     | 1.87           |
| 2017/02/15 03:57 | 2.91       | 146.94     | 1.95           |
| 2017/02/15 04:12 | 2.91       | 146.94     | 1.95           |
| 2017/02/15 04:27 | 3.00       | 156.94     | 2.00           |
| 2017/02/15 04:42 | 3.00       | 156.94     | 2.00           |
| 2017/02/15 04:57 | 3.02       | 159.03     | 2.00           |
| 2017/02/15 05:12 | 3.09       | 160.97     | 1.96           |
| 2017/02/15 05:27 | 3.23       | 171.39     | 1.96           |
| 2017/02/15 05:42 | 3.27       | 174.51     | 1.96           |
| 2017/02/15 05:57 | 3.41       | 204.03     | 2.16           |
| 2017/02/15 06:12 | 3.55       | 215.83     | 2.16           |
| 2017/02/15 06:27 | 4.26       | 329.79     | 2.56           |
| 2017/02/15 06:42 | 4.72       | 393.40     | 2.65           |
| 2017/02/15 06:57 | 4.82       | 417.22     | 2.73           |
| 2017/02/15 07:12 | 5.19       | 463.68     | 2.74           |
| 2017/02/15 07:27 | 5.73       | 570.90     | 2.95           |
| 2017/02/15 07:42 | 6.19       | 632.71     | 2.95           |
| 2017/02/15 07:57 | 6.58       | 657.71     | 2.83           |
| 2017/02/15 08:12 | 6.80       | 686.94     | 2.83           |
| 2017/02/15 08:27 | 6.80       | 695.83     | 2.87           |
| 2017/02/15 08:42 | 6.80       | 686.94     | 2.83           |
| 2017/02/15 08:57 | 6.82       | 697.64     | 2.87           |
| 2017/02/15 09:12 | 6.82       | 695.83     | 2.86           |
| 2017/02/15 09:27 | 6.80       | 695.83     | 2.87           |
| 2017/02/15 09:42 | 6.75       | 766.87     | 3.19           |
| 2017/02/15 09:57 | 6.62       | 748.33     | 3.19           |
| 2017/02/15 10:12 | 6.75       | 766.87     | 3.19           |
| 2017/02/15 10:27 | 6.75       | 766.87     | 3.19           |
| 2017/02/15 10:42 | 6.73       | 757.15     | 3.16           |
| 2017/02/15 10:57 | 6.57       | 732.64     | 3.16           |
| 2017/02/15 11:12 | 6.48       | 720.48     | 3.16           |
| 2017/02/15 11:27 | 6.45       | 713.96     | 3.15           |
| 2017/02/15 11:42 | 6.45       | 713.96     | 3.15           |
| 2017/02/15 11:57 | 6.34       | 697.78     | 3.15           |
| 2017/02/15 12:12 | 6.18       | 673.61     | 3.15           |
| 2017/02/15 12:27 | 6.11       | 675.41     | 3.21           |
| 2017/02/15 12:42 | 6.04       | 665.21     | 3.21           |
| 2017/02/15 12:57 | 5.98       | 642.64     | 3.14           |
| 2017/02/15 13:12 | 5.89       | 628.75     | 3.14           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 13:27 | 5.86       | 620.21     | 3.11           |
| 2017/02/15 13:42 | 5.83       | 616.25     | 3.11           |
| 2017/02/15 13:57 | 5.83       | 615.35     | 3.11           |
| 2017/02/15 14:12 | 5.80       | 605.69     | 3.08           |
| 2017/02/15 14:27 | 5.62       | 580.48     | 3.08           |
| 2017/02/15 14:42 | 5.55       | 555.55     | 3.00           |
| 2017/02/15 14:57 | 5.50       | 548.05     | 3.00           |
| 2017/02/15 15:12 | 5.41       | 536.80     | 3.00           |
| 2017/02/15 15:27 | 5.41       | 536.80     | 3.00           |
| 2017/02/15 15:42 | 5.41       | 553.47     | 3.09           |
| 2017/02/15 15:57 | 5.44       | 557.29     | 3.09           |
| 2017/02/15 16:12 | 5.44       | 540.55     | 3.00           |
| 2017/02/15 16:27 | 5.50       | 565.07     | 3.09           |
| 2017/02/15 16:42 | 5.55       | 567.43     | 3.06           |
| 2017/02/15 16:57 | 5.55       | 567.43     | 3.06           |
| 2017/02/15 17:12 | 5.59       | 573.19     | 3.06           |
| 2017/02/15 17:27 | 5.59       | 573.19     | 3.06           |
| 2017/02/15 17:42 | 5.59       | 579.16     | 3.09           |
| 2017/02/15 17:57 | 5.59       | 579.16     | 3.09           |
| 2017/02/15 18:12 | 5.55       | 573.33     | 3.09           |
| 2017/02/15 18:27 | 5.55       | 573.89     | 3.10           |
| 2017/02/15 18:42 | 5.87       | 618.82     | 3.10           |
| 2017/02/15 18:57 | 5.87       | 618.82     | 3.10           |
| 2017/02/15 19:12 | 6.14       | 656.25     | 3.10           |
| 2017/02/15 19:27 | 6.27       | 676.04     | 3.10           |
| 2017/02/15 19:42 | 6.29       | 677.98     | 3.10           |
| 2017/02/15 19:57 | 6.36       | 703.89     | 3.17           |
| 2017/02/15 20:12 | 6.36       | 722.50     | 3.25           |
| 2017/02/15 20:27 | 6.36       | 725.55     | 3.27           |
| 2017/02/15 20:42 | 6.33       | 732.84     | 3.32           |
| 2017/02/15 20:57 | 6.30       | 728.61     | 3.32           |
| 2017/02/15 21:12 | 6.30       | 728.61     | 3.32           |
| 2017/02/15 21:27 | 6.29       | 728.12     | 3.32           |
| 2017/02/15 21:42 | 6.23       | 717.98     | 3.32           |
| 2017/02/15 21:57 | 6.18       | 709.51     | 3.32           |
| 2017/02/15 22:12 | 5.82       | 647.98     | 3.28           |
| 2017/02/15 22:27 | 5.80       | 618.89     | 3.15           |
| 2017/02/15 22:42 | 5.79       | 616.94     | 3.15           |
| 2017/02/15 22:57 | 5.77       | 566.04     | 2.90           |
| 2017/02/15 23:12 | 5.32       | 492.01     | 2.82           |
| 2017/02/15 23:27 | 4.98       | 444.51     | 2.78           |
| 2017/02/15 23:42 | 4.76       | 376.18     | 2.50           |
| 2017/02/15 23:57 | 4.72       | 359.65     | 2.42           |
| 2017/02/16 00:12 | 4.39       | 335.76     | 2.50           |
| 2017/02/16 00:27 | 4.32       | 307.43     | 2.34           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 00:42 | 4.15       | 289.10     | 2.33           |
| 2017/02/16 00:57 | 3.77       | 244.79     | 2.25           |
| 2017/02/16 01:12 | 3.66       | 201.46     | 1.93           |
| 2017/02/16 01:27 | 3.52       | 190.76     | 1.93           |
| 2017/02/16 01:42 | 3.29       | 164.17     | 1.84           |
| 2017/02/16 01:57 | 3.26       | 128.75     | 1.46           |
| 2017/02/16 02:12 | 3.21       | 125.62     | 1.46           |
| 2017/02/16 02:27 | 3.18       | 124.86     | 1.47           |
| 2017/02/16 02:42 | 3.11       | 139.10     | 1.69           |
| 2017/02/16 02:57 | 3.09       | 138.19     | 1.69           |
| 2017/02/16 03:12 | 3.09       | 138.19     | 1.69           |
| 2017/02/16 03:27 | 3.00       | 116.25     | 1.48           |
| 2017/02/16 03:42 | 2.97       | 130.28     | 1.69           |
| 2017/02/16 03:57 | 2.97       | 136.46     | 1.77           |
| 2017/02/16 04:12 | 2.97       | 136.46     | 1.77           |
| 2017/02/16 04:27 | 2.97       | 136.46     | 1.77           |
| 2017/02/16 04:42 | 3.00       | 125.14     | 1.60           |
| 2017/02/16 04:57 | 3.05       | 125.62     | 1.56           |
| 2017/02/16 05:12 | 3.12       | 129.72     | 1.56           |
| 2017/02/16 05:27 | 3.21       | 134.72     | 1.56           |
| 2017/02/16 05:42 | 3.32       | 141.39     | 1.56           |
| 2017/02/16 05:57 | 3.39       | 148.89     | 1.60           |
| 2017/02/16 06:12 | 3.76       | 244.65     | 2.26           |
| 2017/02/16 06:27 | 3.98       | 289.79     | 2.47           |
| 2017/02/16 06:42 | 4.26       | 322.15     | 2.50           |
| 2017/02/16 06:57 | 4.76       | 392.01     | 2.61           |
| 2017/02/16 07:12 | 5.02       | 442.22     | 2.73           |
| 2017/02/16 07:27 | 5.61       | 518.05     | 2.76           |
| 2017/02/16 07:42 | 5.94       | 559.86     | 2.76           |
| 2017/02/16 07:57 | 6.70       | 657.01     | 2.76           |
| 2017/02/16 08:12 | 6.86       | 707.36     | 2.88           |
| 2017/02/16 08:27 | 6.87       | 709.23     | 2.88           |
| 2017/02/16 08:42 | 6.93       | 716.66     | 2.88           |
| 2017/02/16 08:57 | 6.93       | 716.66     | 2.88           |
| 2017/02/16 09:12 | 6.93       | 716.66     | 2.88           |
| 2017/02/16 09:27 | 6.86       | 707.36     | 2.88           |
| 2017/02/16 09:42 | 6.75       | 732.78     | 3.05           |
| 2017/02/16 09:57 | 6.68       | 722.91     | 3.05           |
| 2017/02/16 10:12 | 6.68       | 722.91     | 3.05           |
| 2017/02/16 10:27 | 6.57       | 707.22     | 3.05           |
| 2017/02/16 10:42 | 6.57       | 721.66     | 3.11           |
| 2017/02/16 10:57 | 6.50       | 711.66     | 3.11           |
| 2017/02/16 11:12 | 6.41       | 709.93     | 3.16           |
| 2017/02/16 11:27 | 6.40       | 707.91     | 3.16           |
| 2017/02/16 11:42 | 6.34       | 699.79     | 3.16           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 11:57 | 6.34       | 699.79     | 3.16           |
| 2017/02/16 12:12 | 6.29       | 691.73     | 3.16           |
| 2017/02/16 12:27 | 6.22       | 646.73     | 3.00           |
| 2017/02/16 12:42 | 6.22       | 646.73     | 3.00           |
| 2017/02/16 12:57 | 6.12       | 633.33     | 3.00           |
| 2017/02/16 13:12 | 6.11       | 631.39     | 3.00           |
| 2017/02/16 13:27 | 6.05       | 623.75     | 3.00           |
| 2017/02/16 13:42 | 6.05       | 628.19     | 3.02           |
| 2017/02/16 13:57 | 6.00       | 620.48     | 3.02           |
| 2017/02/16 14:12 | 5.98       | 618.61     | 3.02           |
| 2017/02/16 14:27 | 5.80       | 593.68     | 3.02           |
| 2017/02/16 14:42 | 5.77       | 597.36     | 3.06           |
| 2017/02/16 14:57 | 5.72       | 581.94     | 3.02           |
| 2017/02/16 15:12 | 5.72       | 581.94     | 3.02           |
| 2017/02/16 15:27 | 5.72       | 571.94     | 2.96           |
| 2017/02/16 15:42 | 5.55       | 550.41     | 2.97           |
| 2017/02/16 15:57 | 5.51       | 544.86     | 2.97           |
| 2017/02/16 16:12 | 5.51       | 544.86     | 2.97           |
| 2017/02/16 16:27 | 5.40       | 529.23     | 2.96           |
| 2017/02/16 16:42 | 5.32       | 510.69     | 2.92           |
| 2017/02/16 16:57 | 5.32       | 473.33     | 2.71           |
| 2017/02/16 17:12 | 5.32       | 473.33     | 2.71           |
| 2017/02/16 17:27 | 5.40       | 475.83     | 2.67           |
| 2017/02/16 17:42 | 5.44       | 480.83     | 2.67           |
| 2017/02/16 17:57 | 5.69       | 517.92     | 2.70           |
| 2017/02/16 18:12 | 5.75       | 525.90     | 2.71           |
| 2017/02/16 18:27 | 5.83       | 536.18     | 2.71           |
| 2017/02/16 18:42 | 5.83       | 535.00     | 2.70           |
| 2017/02/16 18:57 | 5.93       | 547.01     | 2.70           |
| 2017/02/16 19:12 | 6.14       | 572.78     | 2.70           |
| 2017/02/16 19:27 | 6.14       | 574.37     | 2.71           |
| 2017/02/16 19:42 | 6.23       | 587.85     | 2.72           |
| 2017/02/16 19:57 | 6.34       | 611.94     | 2.76           |
| 2017/02/16 20:12 | 6.34       | 606.87     | 2.74           |
| 2017/02/16 20:27 | 6.36       | 613.68     | 2.76           |
| 2017/02/16 20:42 | 6.39       | 617.22     | 2.76           |
| 2017/02/16 20:57 | 6.45       | 651.04     | 2.87           |
| 2017/02/16 21:12 | 6.39       | 665.35     | 2.98           |
| 2017/02/16 21:27 | 6.39       | 665.35     | 2.98           |
| 2017/02/16 21:42 | 6.39       | 665.35     | 2.98           |
| 2017/02/16 21:57 | 6.20       | 666.11     | 3.10           |
| 2017/02/16 22:12 | 6.18       | 636.73     | 2.98           |
| 2017/02/16 22:27 | 5.89       | 603.61     | 3.01           |
| 2017/02/16 22:42 | 5.75       | 584.58     | 3.01           |
| 2017/02/16 22:57 | 5.73       | 576.18     | 2.98           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 23:12 | 5.29       | 515.48     | 2.97           |
| 2017/02/16 23:27 | 5.26       | 497.08     | 2.89           |
| 2017/02/16 23:42 | 5.02       | 418.26     | 2.58           |
| 2017/02/16 23:57 | 4.84       | 397.50     | 2.58           |
| 2017/02/17 00:12 | 4.51       | 348.54     | 2.50           |
| 2017/02/17 00:27 | 4.47       | 334.58     | 2.43           |
| 2017/02/17 00:42 | 4.18       | 304.58     | 2.43           |
| 2017/02/17 00:57 | 4.16       | 300.49     | 2.41           |
| 2017/02/17 01:12 | 4.09       | 280.69     | 2.30           |
| 2017/02/17 01:27 | 4.04       | 266.60     | 2.23           |
| 2017/02/17 01:42 | 3.72       | 226.11     | 2.12           |
| 2017/02/17 01:57 | 3.65       | 220.14     | 2.12           |
| 2017/02/17 02:12 | 3.44       | 196.46     | 2.06           |
| 2017/02/17 02:27 | 3.33       | 187.50     | 2.06           |
| 2017/02/17 02:42 | 3.33       | 187.08     | 2.06           |
| 2017/02/17 02:57 | 3.33       | 184.03     | 2.02           |
| 2017/02/17 03:12 | 3.29       | 180.76     | 2.02           |
| 2017/02/17 03:27 | 3.29       | 182.43     | 2.04           |
| 2017/02/17 03:42 | 3.33       | 185.69     | 2.04           |
| 2017/02/17 03:57 | 3.34       | 186.80     | 2.04           |
| 2017/02/17 04:12 | 3.34       | 186.80     | 2.04           |
| 2017/02/17 04:27 | 3.36       | 187.92     | 2.04           |
| 2017/02/17 04:42 | 3.36       | 192.15     | 2.09           |
| 2017/02/17 04:57 | 3.36       | 187.92     | 2.04           |
| 2017/02/17 05:12 | 3.40       | 191.25     | 2.04           |
| 2017/02/17 05:27 | 3.40       | 187.08     | 2.00           |
| 2017/02/17 05:42 | 3.64       | 210.35     | 2.04           |
| 2017/02/17 05:57 | 3.64       | 210.35     | 2.04           |
| 2017/02/17 06:12 | 3.73       | 231.53     | 2.16           |
| 2017/02/17 06:27 | 3.87       | 243.75     | 2.16           |
| 2017/02/17 06:42 | 4.47       | 357.29     | 2.60           |
| 2017/02/17 06:57 | 4.47       | 361.04     | 2.62           |
| 2017/02/17 07:12 | 4.89       | 422.92     | 2.72           |
| 2017/02/17 07:27 | 5.39       | 512.43     | 2.88           |
| 2017/02/17 07:42 | 5.76       | 562.15     | 2.89           |
| 2017/02/17 07:57 | 6.43       | 706.80     | 3.14           |
| 2017/02/17 08:12 | 6.64       | 737.08     | 3.14           |
| 2017/02/17 08:27 | 6.97       | 785.76     | 3.14           |
| 2017/02/17 08:42 | 6.97       | 785.76     | 3.14           |
| 2017/02/17 08:57 | 6.97       | 785.76     | 3.14           |
| 2017/02/17 09:12 | 6.97       | 803.75     | 3.21           |
| 2017/02/17 09:27 | 6.87       | 735.90     | 2.99           |
| 2017/02/17 09:42 | 6.82       | 699.51     | 2.87           |
| 2017/02/17 09:57 | 6.82       | 691.73     | 2.84           |
| 2017/02/17 10:12 | 6.82       | 684.65     | 2.81           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/17 10:27 | 6.82       | 684.65     | 2.81           |



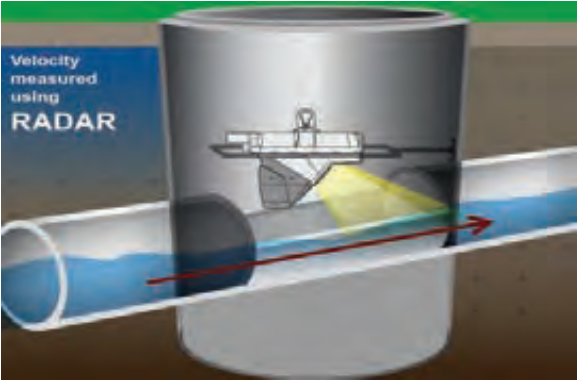
# Site Report

02-15-2017

**Confidential Proprietary Information**

|                                       |  |                                                                                             |  |
|---------------------------------------|--|---------------------------------------------------------------------------------------------|--|
| David Evans                           |  | ~1645 Valley Dr                                                                             |  |
| 2017.01-02 Site 4 Valley Dr MH        |  | Manhole No. 0604                                                                            |  |
| Access:<br>Manhole in southbound lane |  | System Type:<br>Sanitary <input checked="" type="checkbox"/> Storm <input type="checkbox"/> |  |
|                                       |  | Install Date: 1/18/2017                                                                     |  |

| <p style="text-align: center;">Map</p>  <p style="text-align: center;">Technology</p>  <p style="text-align: center;">Sewer Plan</p>  | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4" style="background-color: #d3d3d3;">Flow Meter</th> </tr> <tr> <td colspan="4">Meter Depth: 98"</td> </tr> <tr> <td colspan="4">Map Coordinates: 33.866947, -118.396124</td> </tr> <tr> <td colspan="4">Moderate open channel hydraulics</td> </tr> <tr> <th>Avg Velocity</th> <th>Avg Measured Level</th> <th colspan="2">Multiplier</th> </tr> <tr> <td>3.25 fps</td> <td>3.75"</td> <td colspan="2">1</td> </tr> <tr> <th colspan="4" style="background-color: #d3d3d3;">Gas</th> </tr> <tr> <th>O2</th> <th>H2S</th> <th>CO</th> <th>LEL</th> </tr> <tr> <td>20.9</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <th colspan="4" style="background-color: #d3d3d3;">Notes</th> </tr> <tr> <td colspan="4">90 degree bend in MH</td> </tr> <tr> <th colspan="4" style="background-color: #d3d3d3;">Traffic Safety</th> </tr> <tr> <td colspan="4">Used cones, signs &amp; a flagger.</td> </tr> <tr> <th colspan="4" style="background-color: #d3d3d3;">Land Use</th> </tr> <tr> <th>Residential</th> <th>Commercial</th> <th>Industrial</th> <th>Trunk</th> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">Manhole Depth</td> <td colspan="2">117"</td> </tr> <tr> <td colspan="2">Monitored Pipe Size</td> <td colspan="2">12"</td> </tr> <tr> <td colspan="2">Inner Pipe Size (In/Out)</td> <td colspan="2">12"/12"</td> </tr> <tr> <td colspan="2">Pipe Shape</td> <td colspan="2">Round</td> </tr> <tr> <td colspan="2">Pipe Condition</td> <td colspan="2">Good</td> </tr> <tr> <td colspan="2">Manhole Material</td> <td colspan="2">Concrete</td> </tr> <tr> <td colspan="2">Silt</td> <td colspan="2">0</td> </tr> <tr> <td colspan="2">Velocity Profile Data</td> <td colspan="2">*</td> </tr> <tr> <td colspan="2">Velocity Profile Taken</td> <td colspan="2">0.4 2-D</td> </tr> <tr> <td colspan="2">Sensor Offset</td> <td colspan="2">18.51"</td> </tr> <tr> <td colspan="2">Sensor Dist. to Crown</td> <td colspan="2">6.51"</td> </tr> <tr> <td colspan="2">Sensor Direction</td> <td colspan="2">Downstream</td> </tr> <tr> <td colspan="2">Flow Heading</td> <td colspan="2">West</td> </tr> </table> | Flow Meter |       |  |  | Meter Depth: 98" |  |  |  | Map Coordinates: 33.866947, -118.396124 |  |  |  | Moderate open channel hydraulics |  |  |  | Avg Velocity | Avg Measured Level | Multiplier |  | 3.25 fps | 3.75" | 1 |  | Gas |  |  |  | O2 | H2S | CO | LEL | 20.9 | 0 | 0 | 0 | Notes |  |  |  | 90 degree bend in MH |  |  |  | Traffic Safety |  |  |  | Used cones, signs & a flagger. |  |  |  | Land Use |  |  |  | Residential | Commercial | Industrial | Trunk | X | X |  |  | Manhole Depth |  | 117" |  | Monitored Pipe Size |  | 12" |  | Inner Pipe Size (In/Out) |  | 12"/12" |  | Pipe Shape |  | Round |  | Pipe Condition |  | Good |  | Manhole Material |  | Concrete |  | Silt |  | 0 |  | Velocity Profile Data |  | * |  | Velocity Profile Taken |  | 0.4 2-D |  | Sensor Offset |  | 18.51" |  | Sensor Dist. to Crown |  | 6.51" |  | Sensor Direction |  | Downstream |  | Flow Heading |  | West |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|--|--|------------------|--|--|--|-----------------------------------------|--|--|--|----------------------------------|--|--|--|--------------|--------------------|------------|--|----------|-------|---|--|-----|--|--|--|----|-----|----|-----|------|---|---|---|-------|--|--|--|----------------------|--|--|--|----------------|--|--|--|--------------------------------|--|--|--|----------|--|--|--|-------------|------------|------------|-------|---|---|--|--|---------------|--|------|--|---------------------|--|-----|--|--------------------------|--|---------|--|------------|--|-------|--|----------------|--|------|--|------------------|--|----------|--|------|--|---|--|-----------------------|--|---|--|------------------------|--|---------|--|---------------|--|--------|--|-----------------------|--|-------|--|------------------|--|------------|--|--------------|--|------|--|
| Flow Meter                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Meter Depth: 98"                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Map Coordinates: 33.866947, -118.396124                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Moderate open channel hydraulics                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Avg Velocity                                                                                                                                                                                                                                                                                                                                                                                 | Avg Measured Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Multiplier |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| 3.25 fps                                                                                                                                                                                                                                                                                                                                                                                     | 3.75"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1          |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Gas                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| O2                                                                                                                                                                                                                                                                                                                                                                                           | H2S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CO         | LEL   |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| 20.9                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0          | 0     |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Notes                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| 90 degree bend in MH                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Traffic Safety                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Used cones, signs & a flagger.                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Land Use                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Residential                                                                                                                                                                                                                                                                                                                                                                                  | Commercial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Industrial | Trunk |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| X                                                                                                                                                                                                                                                                                                                                                                                            | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Manhole Depth                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 117"       |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Monitored Pipe Size                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12"        |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Inner Pipe Size (In/Out)                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12"/12"    |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Pipe Shape                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Round      |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Pipe Condition                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Good       |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Manhole Material                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Concrete   |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Silt                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0          |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Velocity Profile Data                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *          |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Velocity Profile Taken                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.4 2-D    |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Sensor Offset                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18.51"     |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Sensor Dist. to Crown                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.51"      |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Sensor Direction                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Downstream |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |
| Flow Heading                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | West       |       |  |  |                  |  |  |  |                                         |  |  |  |                                  |  |  |  |              |                    |            |  |          |       |   |  |     |  |  |  |    |     |    |     |      |   |   |   |       |  |  |  |                      |  |  |  |                |  |  |  |                                |  |  |  |          |  |  |  |             |            |            |       |   |   |  |  |               |  |      |  |                     |  |     |  |                          |  |         |  |            |  |       |  |                |  |      |  |                  |  |          |  |      |  |   |  |                       |  |   |  |                        |  |         |  |               |  |        |  |                       |  |       |  |                  |  |            |  |              |  |      |  |



## Meter Site Document

David Evans

2017.01-02 Site 4 Valley Dr MH

~1645 Valley Dr

Site



Manhole Hydraulics



Installation Process



Installed



Traffic Control







Utility Systems Science and Software

Report Date: 02/20/2017  
Customer: David Evans  
Group: Hermosa Beach  
SiteID: 2637

### Statistics for 2017.01-02 Site 4 Valley Dr MH: 01/19/2017 thru 02/16/2017

|              | Flow (GPM)    |               |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |              |             |                  |             |
|--------------|---------------|---------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|--------------|-------------|------------------|-------------|
| Date         | Avg           | Max           | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max          | Min         | Total Gal        | Rain        |
| 1/19/17      | 285.76        | 476.87        | 81.53        | 0.41        | 0.69        | 0.12        | 3.07           | 3.68        | 2.11        | 3.62           | 4.75         | 1.98        | 411,490          | 0.76        |
| 1/20/17      | 301.38        | 759.65        | 62.43        | 0.43        | 1.09        | 0.09        | 2.91           | 3.80        | 1.90        | 3.86           | 7.84         | 1.73        | 433,993          | 1.29        |
| 1/21/17      | 251.75        | 489.65        | 50.07        | 0.36        | 0.71        | 0.07        | 2.83           | 3.75        | 1.78        | 3.36           | 4.82         | 1.61        | 362,525          |             |
| 1/22/17      | 317.48        | 888.19        | 70.49        | 0.46        | 1.28        | 0.10        | 2.76           | 3.92        | 1.30        | 4.45           | 12.93        | 1.87        | 457,165          | 3.72        |
| <b>Week:</b> | <b>289.09</b> | <b>888.19</b> | <b>50.07</b> | <b>0.42</b> | <b>1.28</b> | <b>0.07</b> | <b>2.89</b>    | <b>3.92</b> | <b>1.30</b> | <b>3.82</b>    | <b>12.93</b> | <b>1.61</b> | <b>1,665,174</b> | <b>5.77</b> |
| 1/23/17      | 217.62        | 338.82        | 37.71        | 0.31        | 0.49        | 0.05        | 2.64           | 3.54        | 1.02        | 3.21           | 3.83         | 1.94        | 313,367          | 0.13        |
| 1/24/17      | 236.65        | 407.01        | 50.76        | 0.34        | 0.59        | 0.07        | 2.75           | 3.81        | 1.12        | 3.33           | 4.16         | 2.23        | 340,780          |             |
| 1/25/17      | 253.48        | 381.80        | 50.28        | 0.37        | 0.55        | 0.07        | 2.93           | 3.74        | 1.16        | 3.34           | 3.99         | 2.17        | 365,010          |             |
| 1/26/17      | 239.06        | 396.39        | 60.07        | 0.34        | 0.57        | 0.09        | 2.85           | 4.00        | 1.25        | 3.30           | 3.96         | 2.33        | 344,241          |             |
| 1/27/17      | 223.53        | 348.19        | 51.94        | 0.32        | 0.50        | 0.07        | 2.79           | 3.74        | 1.20        | 3.19           | 3.77         | 2.17        | 321,883          |             |
| 1/28/17      | 231.40        | 388.54        | 41.18        | 0.33        | 0.56        | 0.06        | 2.76           | 3.96        | 1.07        | 3.23           | 3.88         | 2.00        | 333,218          |             |
| 1/29/17      | 227.39        | 388.26        | 50.21        | 0.33        | 0.56        | 0.07        | 2.67           | 3.74        | 1.20        | 3.25           | 4.06         | 2.12        | 327,447          |             |
| <b>Week:</b> | <b>232.73</b> | <b>407.01</b> | <b>37.71</b> | <b>0.34</b> | <b>0.59</b> | <b>0.05</b> | <b>2.77</b>    | <b>4.00</b> | <b>1.02</b> | <b>3.26</b>    | <b>4.16</b>  | <b>1.94</b> | <b>2,345,946</b> | <b>0.13</b> |
| 1/30/17      | 235.40        | 367.43        | 40.69        | 0.34        | 0.53        | 0.06        | 2.81           | 3.76        | 1.09        | 3.24           | 3.88         | 1.96        | 338,979          |             |
| 1/31/17      | 249.11        | 422.36        | 50.28        | 0.36        | 0.61        | 0.07        | 2.93           | 4.02        | 1.16        | 3.30           | 4.11         | 2.17        | 358,720          |             |
| 2/1/17       | 263.19        | 395.69        | 52.22        | 0.38        | 0.57        | 0.08        | 3.10           | 3.94        | 1.23        | 3.30           | 3.94         | 2.14        | 378,999          |             |
| 2/2/17       | 246.03        | 411.73        | 62.71        | 0.35        | 0.59        | 0.09        | 2.98           | 4.23        | 1.33        | 3.26           | 3.91         | 2.30        | 354,287          |             |



|                | Flow (GPM)    |               |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |              |             |                  |             |
|----------------|---------------|---------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|--------------|-------------|------------------|-------------|
| Date           | Avg           | Max           | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max          | Min         | Total Gal        | Rain        |
| 2/3/17         | 232.25        | 360.14        | 54.10        | 0.33        | 0.52        | 0.08        | 2.94           | 3.94        | 1.27        | 3.15           | 3.72         | 2.14        | 334,434          | 0.39        |
| 2/4/17         | 240.36        | 403.89        | 42.78        | 0.35        | 0.58        | 0.06        | 2.91           | 4.19        | 1.12        | 3.19           | 3.83         | 1.98        | 346,122          |             |
| 2/5/17         | 202.82        | 402.36        | 52.29        | 0.29        | 0.58        | 0.08        | 2.45           | 3.95        | 1.27        | 3.21           | 4.01         | 2.09        | 292,057          |             |
| <b>Week:</b>   | <b>238.45</b> | <b>422.36</b> | <b>40.69</b> | <b>0.34</b> | <b>0.61</b> | <b>0.06</b> | <b>2.87</b>    | <b>4.23</b> | <b>1.09</b> | <b>3.24</b>    | <b>4.11</b>  | <b>1.96</b> | <b>2,403,599</b> | <b>0.39</b> |
| 2/6/17         | 158.86        | 247.36        | 27.50        | 0.23        | 0.36        | 0.04        | 1.93           | 2.58        | 0.74        | 3.21           | 3.83         | 1.94        | 228,752          | 1.43        |
| 2/7/17         | 181.06        | 327.43        | 37.08        | 0.26        | 0.47        | 0.05        | 2.11           | 3.12        | 0.82        | 3.31           | 4.08         | 2.23        | 260,723          | 0.64        |
| 2/8/17         | 216.63        | 409.17        | 55.62        | 0.31        | 0.59        | 0.08        | 2.69           | 3.46        | 1.97        | 3.21           | 4.43         | 1.61        | 311,953          | 0.07        |
| 2/9/17         | 227.11        | 396.73        | 57.85        | 0.33        | 0.57        | 0.08        | 2.76           | 3.42        | 2.05        | 3.25           | 4.37         | 1.61        | 327,040          |             |
| 2/10/17        | 232.83        | 383.05        | 56.32        | 0.34        | 0.55        | 0.08        | 2.81           | 3.48        | 2.05        | 3.25           | 4.29         | 1.58        | 335,282          | 0.33        |
| 2/11/17        | 223.51        | 390.69        | 55.69        | 0.32        | 0.56        | 0.08        | 2.71           | 3.41        | 2.00        | 3.22           | 4.34         | 1.59        | 321,859          | 0.01        |
| 2/12/17        | 230.15        | 397.64        | 56.25        | 0.33        | 0.57        | 0.08        | 2.77           | 3.45        | 1.95        | 3.22           | 4.40         | 1.59        | 331,419          |             |
| <b>Week:</b>   | <b>210.02</b> | <b>409.17</b> | <b>27.50</b> | <b>0.30</b> | <b>0.59</b> | <b>0.04</b> | <b>2.54</b>    | <b>3.48</b> | <b>0.74</b> | <b>3.24</b>    | <b>4.43</b>  | <b>1.58</b> | <b>2,117,029</b> | <b>2.48</b> |
| 2/13/17        | 224.71        | 369.79        | 54.51        | 0.32        | 0.53        | 0.08        | 2.76           | 3.42        | 2.04        | 3.22           | 4.19         | 1.55        | 323,585          |             |
| 2/14/17        | 222.27        | 401.73        | 55.83        | 0.32        | 0.58        | 0.08        | 2.74           | 3.51        | 2.09        | 3.21           | 4.33         | 1.55        | 320,069          |             |
| 2/15/17        | 225.24        | 411.94        | 57.85        | 0.32        | 0.59        | 0.08        | 2.76           | 3.53        | 2.12        | 3.22           | 4.39         | 1.55        | 324,339          |             |
| 2/16/17        | 227.10        | 395.42        | 56.87        | 0.33        | 0.57        | 0.08        | 2.77           | 3.43        | 1.92        | 3.24           | 4.34         | 1.64        | 327,030          |             |
| <b>Week:</b>   | <b>224.83</b> | <b>411.94</b> | <b>54.51</b> | <b>0.32</b> | <b>0.59</b> | <b>0.08</b> | <b>2.76</b>    | <b>3.53</b> | <b>1.92</b> | <b>3.22</b>    | <b>4.39</b>  | <b>1.55</b> | <b>1,295,023</b> |             |
| <b>Totals:</b> | <b>235.32</b> | <b>888.19</b> | <b>27.50</b> | <b>0.34</b> | <b>1.28</b> | <b>0.04</b> | <b>2.75</b>    | <b>4.23</b> | <b>0.74</b> | <b>3.32</b>    | <b>12.93</b> | <b>1.55</b> | <b>9,826,770</b> | <b>8.77</b> |



Data for 2017.01-02 Site 4 Valley Dr MH:  
1/18/2017 thru 2/17/2017

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/18 12:55 | 3.82       | 319.17     | 3.31           |
| 2017/01/18 13:10 | 3.52       | 264.93     | 3.07           |
| 2017/01/18 13:25 | 3.51       | 260.83     | 3.04           |
| 2017/01/18 13:40 | 3.83       | 313.19     | 3.23           |
| 2017/01/18 13:55 | 3.69       | 286.25     | 3.11           |
| 2017/01/18 14:10 | 3.59       | 272.22     | 3.07           |
| 2017/01/18 14:25 | 3.59       | 275.83     | 3.11           |
| 2017/01/18 14:40 | 3.59       | 275.83     | 3.11           |
| 2017/01/18 14:55 | 3.52       | 266.80     | 3.09           |
| 2017/01/18 15:10 | 3.51       | 265.35     | 3.09           |
| 2017/01/18 15:25 | 3.48       | 266.04     | 3.13           |
| 2017/01/18 15:40 | 3.43       | 256.60     | 3.09           |
| 2017/01/18 15:55 | 3.43       | 256.60     | 3.09           |
| 2017/01/18 16:10 | 3.48       | 266.04     | 3.13           |
| 2017/01/18 16:25 | 3.50       | 262.92     | 3.08           |
| 2017/01/18 16:40 | 3.52       | 265.83     | 3.08           |
| 2017/01/18 16:55 | 3.52       | 268.89     | 3.11           |
| 2017/01/18 17:10 | 3.50       | 268.68     | 3.14           |
| 2017/01/18 17:25 | 3.52       | 268.89     | 3.11           |
| 2017/01/18 17:40 | 3.55       | 272.22     | 3.12           |
| 2017/01/18 17:55 | 3.47       | 262.99     | 3.11           |
| 2017/01/18 18:10 | 3.55       | 268.89     | 3.08           |
| 2017/01/18 18:25 | 3.55       | 264.79     | 3.03           |
| 2017/01/18 18:40 | 3.55       | 268.89     | 3.08           |
| 2017/01/18 18:55 | 3.69       | 283.61     | 3.08           |
| 2017/01/18 19:10 | 3.72       | 301.74     | 3.24           |
| 2017/01/18 19:25 | 3.89       | 320.69     | 3.24           |
| 2017/01/18 19:40 | 4.02       | 346.04     | 3.34           |
| 2017/01/18 19:55 | 4.12       | 357.50     | 3.34           |
| 2017/01/18 20:10 | 4.12       | 357.50     | 3.34           |
| 2017/01/18 20:25 | 4.12       | 357.50     | 3.34           |
| 2017/01/18 20:40 | 4.12       | 349.79     | 3.26           |
| 2017/01/18 20:55 | 4.02       | 331.60     | 3.20           |
| 2017/01/18 21:10 | 3.93       | 320.35     | 3.19           |
| 2017/01/18 21:25 | 3.73       | 298.40     | 3.19           |
| 2017/01/18 21:40 | 3.93       | 316.11     | 3.15           |
| 2017/01/18 21:55 | 3.73       | 294.58     | 3.15           |
| 2017/01/18 22:10 | 3.71       | 282.64     | 3.05           |
| 2017/01/18 22:25 | 3.59       | 270.97     | 3.05           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/18 22:40 | 3.40       | 250.83     | 3.05           |
| 2017/01/18 22:55 | 3.36       | 241.39     | 2.99           |
| 2017/01/18 23:10 | 3.00       | 203.82     | 2.96           |
| 2017/01/18 23:25 | 2.96       | 167.85     | 2.49           |
| 2017/01/18 23:40 | 2.90       | 161.32     | 2.46           |
| 2017/01/18 23:55 | 2.82       | 153.54     | 2.44           |
| 2017/01/19 00:10 | 2.72       | 145.90     | 2.43           |
| 2017/01/19 00:25 | 2.57       | 129.37     | 2.34           |
| 2017/01/19 00:40 | 2.40       | 111.11     | 2.21           |
| 2017/01/19 00:55 | 2.32       | 104.86     | 2.20           |
| 2017/01/19 01:10 | 2.29       | 103.06     | 2.20           |
| 2017/01/19 01:25 | 2.19       | 95.00      | 2.16           |
| 2017/01/19 01:40 | 2.07       | 87.29      | 2.16           |
| 2017/01/19 01:55 | 2.00       | 81.53      | 2.11           |
| 2017/01/19 02:10 | 1.98       | 82.29      | 2.16           |
| 2017/01/19 02:25 | 1.98       | 82.29      | 2.16           |
| 2017/01/19 02:40 | 1.98       | 86.11      | 2.26           |
| 2017/01/19 02:55 | 2.62       | 143.33     | 2.52           |
| 2017/01/19 03:10 | 3.12       | 190.97     | 2.62           |
| 2017/01/19 03:25 | 3.12       | 192.43     | 2.64           |
| 2017/01/19 03:40 | 3.12       | 195.69     | 2.68           |
| 2017/01/19 03:55 | 2.82       | 166.39     | 2.64           |
| 2017/01/19 04:10 | 2.82       | 169.24     | 2.68           |
| 2017/01/19 04:25 | 2.82       | 169.24     | 2.68           |
| 2017/01/19 04:40 | 3.07       | 200.55     | 2.82           |
| 2017/01/19 04:55 | 4.48       | 419.93     | 3.50           |
| 2017/01/19 05:10 | 4.75       | 476.87     | 3.68           |
| 2017/01/19 05:25 | 4.75       | 476.87     | 3.68           |
| 2017/01/19 05:40 | 4.75       | 476.87     | 3.68           |
| 2017/01/19 05:55 | 4.18       | 364.79     | 3.34           |
| 2017/01/19 06:10 | 3.29       | 244.93     | 3.12           |
| 2017/01/19 06:25 | 3.29       | 244.93     | 3.12           |
| 2017/01/19 06:40 | 3.29       | 244.93     | 3.12           |
| 2017/01/19 06:55 | 3.32       | 251.94     | 3.18           |
| 2017/01/19 07:10 | 3.46       | 266.94     | 3.18           |
| 2017/01/19 07:25 | 4.09       | 359.86     | 3.39           |
| 2017/01/19 07:40 | 4.50       | 413.05     | 3.42           |
| 2017/01/19 07:55 | 4.52       | 424.51     | 3.49           |
| 2017/01/19 08:10 | 4.52       | 424.51     | 3.49           |
| 2017/01/19 08:25 | 4.61       | 435.07     | 3.49           |
| 2017/01/19 08:40 | 4.61       | 418.89     | 3.36           |
| 2017/01/19 08:55 | 4.33       | 385.14     | 3.36           |
| 2017/01/19 09:10 | 4.32       | 383.47     | 3.36           |
| 2017/01/19 09:25 | 4.29       | 389.10     | 3.44           |
| 2017/01/19 09:40 | 4.18       | 375.42     | 3.44           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 09:55 | 4.18       | 375.42     | 3.44           |
| 2017/01/19 10:10 | 4.18       | 375.42     | 3.44           |
| 2017/01/19 10:25 | 4.18       | 355.62     | 3.26           |
| 2017/01/19 10:40 | 4.08       | 344.37     | 3.26           |
| 2017/01/19 10:55 | 4.08       | 347.43     | 3.29           |
| 2017/01/19 11:10 | 4.08       | 347.43     | 3.29           |
| 2017/01/19 11:25 | 4.05       | 344.17     | 3.29           |
| 2017/01/19 11:40 | 3.86       | 321.74     | 3.29           |
| 2017/01/19 11:55 | 3.75       | 303.40     | 3.23           |
| 2017/01/19 12:10 | 3.75       | 302.99     | 3.22           |
| 2017/01/19 12:25 | 3.66       | 293.68     | 3.22           |
| 2017/01/19 12:40 | 3.59       | 286.04     | 3.22           |
| 2017/01/19 12:55 | 3.59       | 285.35     | 3.22           |
| 2017/01/19 13:10 | 3.59       | 285.35     | 3.22           |
| 2017/01/19 13:25 | 3.58       | 270.76     | 3.07           |
| 2017/01/19 13:40 | 3.52       | 264.93     | 3.07           |
| 2017/01/19 13:55 | 3.44       | 256.25     | 3.07           |
| 2017/01/19 14:10 | 3.44       | 256.25     | 3.07           |
| 2017/01/19 14:25 | 3.40       | 240.76     | 2.93           |
| 2017/01/19 14:40 | 3.40       | 247.01     | 3.01           |
| 2017/01/19 14:55 | 3.44       | 251.25     | 3.01           |
| 2017/01/19 15:10 | 3.44       | 248.47     | 2.97           |
| 2017/01/19 15:25 | 3.37       | 244.24     | 3.01           |
| 2017/01/19 15:40 | 3.44       | 252.01     | 3.02           |
| 2017/01/19 15:55 | 3.47       | 261.60     | 3.10           |
| 2017/01/19 16:10 | 3.52       | 260.55     | 3.02           |
| 2017/01/19 16:25 | 3.52       | 260.55     | 3.02           |
| 2017/01/19 16:40 | 3.52       | 259.51     | 3.00           |
| 2017/01/19 16:55 | 3.47       | 253.82     | 3.00           |
| 2017/01/19 17:10 | 3.47       | 252.71     | 2.99           |
| 2017/01/19 17:25 | 3.47       | 253.82     | 3.00           |
| 2017/01/19 17:40 | 3.50       | 250.42     | 2.93           |
| 2017/01/19 17:55 | 3.64       | 284.86     | 3.16           |
| 2017/01/19 18:10 | 3.82       | 318.26     | 3.30           |
| 2017/01/19 18:25 | 3.82       | 324.72     | 3.37           |
| 2017/01/19 18:40 | 3.82       | 329.17     | 3.41           |
| 2017/01/19 18:55 | 3.96       | 345.76     | 3.41           |
| 2017/01/19 19:10 | 4.02       | 351.74     | 3.39           |
| 2017/01/19 19:25 | 4.02       | 351.74     | 3.39           |
| 2017/01/19 19:40 | 4.07       | 341.11     | 3.24           |
| 2017/01/19 19:55 | 4.14       | 341.25     | 3.17           |
| 2017/01/19 20:10 | 4.15       | 350.76     | 3.24           |
| 2017/01/19 20:25 | 4.15       | 347.08     | 3.21           |
| 2017/01/19 20:40 | 4.18       | 353.96     | 3.24           |
| 2017/01/19 20:55 | 4.15       | 351.87     | 3.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 21:10 | 4.18       | 355.14     | 3.25           |
| 2017/01/19 21:25 | 4.33       | 372.92     | 3.25           |
| 2017/01/19 21:40 | 4.33       | 372.92     | 3.25           |
| 2017/01/19 21:55 | 4.33       | 396.18     | 3.46           |
| 2017/01/19 22:10 | 4.33       | 398.40     | 3.48           |
| 2017/01/19 22:25 | 4.29       | 393.19     | 3.48           |
| 2017/01/19 22:40 | 4.27       | 373.47     | 3.32           |
| 2017/01/19 22:55 | 3.91       | 330.97     | 3.32           |
| 2017/01/19 23:10 | 3.72       | 296.46     | 3.19           |
| 2017/01/19 23:25 | 3.26       | 216.87     | 2.80           |
| 2017/01/19 23:40 | 3.01       | 189.10     | 2.73           |
| 2017/01/19 23:55 | 2.90       | 176.81     | 2.69           |
| 2017/01/20 00:10 | 2.55       | 140.35     | 2.56           |
| 2017/01/20 00:25 | 2.50       | 129.79     | 2.44           |
| 2017/01/20 00:40 | 2.44       | 125.14     | 2.43           |
| 2017/01/20 00:55 | 2.41       | 108.96     | 2.15           |
| 2017/01/20 01:10 | 2.15       | 91.18      | 2.13           |
| 2017/01/20 01:25 | 2.09       | 84.93      | 2.06           |
| 2017/01/20 01:40 | 1.87       | 69.72      | 1.99           |
| 2017/01/20 01:55 | 1.86       | 69.03      | 1.99           |
| 2017/01/20 02:10 | 1.86       | 69.37      | 2.00           |
| 2017/01/20 02:25 | 1.80       | 65.42      | 1.97           |
| 2017/01/20 02:40 | 1.76       | 63.89      | 1.99           |
| 2017/01/20 02:55 | 1.73       | 62.71      | 2.00           |
| 2017/01/20 03:10 | 1.73       | 62.64      | 1.99           |
| 2017/01/20 03:25 | 1.73       | 62.43      | 1.99           |
| 2017/01/20 03:40 | 1.73       | 62.64      | 1.99           |
| 2017/01/20 03:55 | 1.78       | 71.39      | 2.20           |
| 2017/01/20 04:10 | 2.37       | 113.33     | 2.30           |
| 2017/01/20 04:25 | 2.66       | 140.76     | 2.42           |
| 2017/01/20 04:40 | 3.32       | 234.17     | 2.95           |
| 2017/01/20 04:55 | 3.32       | 234.17     | 2.95           |
| 2017/01/20 05:10 | 3.32       | 234.17     | 2.95           |
| 2017/01/20 05:25 | 3.19       | 221.53     | 2.95           |
| 2017/01/20 05:40 | 2.76       | 160.28     | 2.62           |
| 2017/01/20 05:55 | 2.75       | 159.17     | 2.62           |
| 2017/01/20 06:10 | 2.75       | 159.17     | 2.62           |
| 2017/01/20 06:25 | 2.75       | 160.07     | 2.63           |
| 2017/01/20 06:40 | 3.40       | 262.99     | 3.20           |
| 2017/01/20 06:55 | 3.96       | 324.24     | 3.20           |
| 2017/01/20 07:10 | 4.89       | 456.73     | 3.39           |
| 2017/01/20 07:25 | 5.84       | 592.64     | 3.48           |
| 2017/01/20 07:40 | 5.84       | 647.78     | 3.80           |
| 2017/01/20 07:55 | 5.84       | 647.78     | 3.80           |
| 2017/01/20 08:10 | 5.54       | 604.37     | 3.80           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 08:25 | 5.21       | 517.22     | 3.53           |
| 2017/01/20 08:40 | 4.82       | 460.55     | 3.48           |
| 2017/01/20 08:55 | 4.58       | 430.55     | 3.48           |
| 2017/01/20 09:10 | 4.51       | 421.80     | 3.48           |
| 2017/01/20 09:25 | 4.47       | 422.01     | 3.53           |
| 2017/01/20 09:40 | 4.47       | 423.12     | 3.54           |
| 2017/01/20 09:55 | 4.58       | 443.19     | 3.58           |
| 2017/01/20 10:10 | 4.84       | 477.78     | 3.58           |
| 2017/01/20 10:25 | 4.86       | 479.58     | 3.58           |
| 2017/01/20 10:40 | 4.87       | 481.39     | 3.58           |
| 2017/01/20 10:55 | 4.87       | 466.04     | 3.47           |
| 2017/01/20 11:10 | 4.97       | 478.47     | 3.47           |
| 2017/01/20 11:25 | 5.55       | 531.11     | 3.33           |
| 2017/01/20 11:40 | 6.70       | 667.29     | 3.29           |
| 2017/01/20 11:55 | 7.75       | 502.71     | 2.09           |
| 2017/01/20 12:10 | 7.84       | 464.51     | 1.90           |
| 2017/01/20 12:25 | 7.84       | 464.51     | 1.90           |
| 2017/01/20 12:40 | 7.75       | 502.71     | 2.09           |
| 2017/01/20 12:55 | 7.44       | 759.65     | 3.31           |
| 2017/01/20 13:10 | 5.50       | 532.15     | 3.38           |
| 2017/01/20 13:25 | 4.71       | 433.33     | 3.38           |
| 2017/01/20 13:40 | 4.41       | 397.57     | 3.38           |
| 2017/01/20 13:55 | 4.29       | 376.46     | 3.33           |
| 2017/01/20 14:10 | 3.94       | 325.00     | 3.22           |
| 2017/01/20 14:25 | 3.94       | 325.00     | 3.22           |
| 2017/01/20 14:40 | 3.94       | 325.00     | 3.22           |
| 2017/01/20 14:55 | 3.94       | 318.82     | 3.16           |
| 2017/01/20 15:10 | 3.75       | 294.37     | 3.13           |
| 2017/01/20 15:25 | 3.75       | 294.37     | 3.13           |
| 2017/01/20 15:40 | 3.75       | 290.35     | 3.09           |
| 2017/01/20 15:55 | 3.75       | 290.35     | 3.09           |
| 2017/01/20 16:10 | 3.75       | 290.35     | 3.09           |
| 2017/01/20 16:25 | 3.75       | 290.35     | 3.09           |
| 2017/01/20 16:40 | 3.68       | 282.92     | 3.09           |
| 2017/01/20 16:55 | 3.82       | 301.46     | 3.13           |
| 2017/01/20 17:10 | 3.69       | 285.28     | 3.10           |
| 2017/01/20 17:25 | 3.61       | 276.39     | 3.10           |
| 2017/01/20 17:40 | 3.69       | 285.28     | 3.10           |
| 2017/01/20 17:55 | 3.77       | 294.79     | 3.10           |
| 2017/01/20 18:10 | 3.77       | 294.79     | 3.10           |
| 2017/01/20 18:25 | 3.93       | 313.82     | 3.13           |
| 2017/01/20 18:40 | 3.93       | 313.82     | 3.13           |
| 2017/01/20 18:55 | 3.93       | 315.14     | 3.14           |
| 2017/01/20 19:10 | 4.01       | 322.99     | 3.13           |
| 2017/01/20 19:25 | 4.00       | 321.46     | 3.13           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 19:40 | 4.00       | 319.58     | 3.11           |
| 2017/01/20 19:55 | 4.01       | 311.80     | 3.02           |
| 2017/01/20 20:10 | 4.01       | 310.07     | 3.00           |
| 2017/01/20 20:25 | 4.00       | 308.54     | 3.00           |
| 2017/01/20 20:40 | 3.87       | 289.86     | 2.95           |
| 2017/01/20 20:55 | 3.73       | 275.90     | 2.95           |
| 2017/01/20 21:10 | 3.71       | 272.78     | 2.95           |
| 2017/01/20 21:25 | 3.64       | 265.69     | 2.95           |
| 2017/01/20 21:40 | 3.54       | 256.18     | 2.95           |
| 2017/01/20 21:55 | 3.54       | 256.18     | 2.95           |
| 2017/01/20 22:10 | 3.46       | 243.19     | 2.89           |
| 2017/01/20 22:25 | 3.32       | 224.44     | 2.83           |
| 2017/01/20 22:40 | 3.27       | 214.58     | 2.75           |
| 2017/01/20 22:55 | 3.19       | 199.65     | 2.66           |
| 2017/01/20 23:10 | 3.18       | 198.40     | 2.66           |
| 2017/01/20 23:25 | 2.98       | 179.24     | 2.62           |
| 2017/01/20 23:40 | 2.93       | 173.12     | 2.60           |
| 2017/01/20 23:55 | 2.82       | 155.00     | 2.46           |
| 2017/01/21 00:10 | 2.78       | 148.12     | 2.40           |
| 2017/01/21 00:25 | 2.75       | 142.99     | 2.35           |
| 2017/01/21 00:40 | 2.61       | 131.11     | 2.32           |
| 2017/01/21 00:55 | 2.50       | 118.19     | 2.22           |
| 2017/01/21 01:10 | 2.22       | 99.86      | 2.22           |
| 2017/01/21 01:25 | 2.21       | 98.96      | 2.22           |
| 2017/01/21 01:40 | 2.15       | 95.35      | 2.22           |
| 2017/01/21 01:55 | 2.12       | 93.61      | 2.22           |
| 2017/01/21 02:10 | 2.03       | 85.42      | 2.17           |
| 2017/01/21 02:25 | 1.91       | 70.76      | 1.95           |
| 2017/01/21 02:40 | 1.87       | 69.72      | 1.99           |
| 2017/01/21 02:55 | 1.86       | 68.96      | 1.99           |
| 2017/01/21 03:10 | 1.79       | 64.17      | 1.95           |
| 2017/01/21 03:25 | 1.78       | 63.40      | 1.95           |
| 2017/01/21 03:40 | 1.73       | 58.96      | 1.88           |
| 2017/01/21 03:55 | 1.61       | 52.85      | 1.88           |
| 2017/01/21 04:10 | 1.61       | 50.07      | 1.78           |
| 2017/01/21 04:25 | 1.61       | 50.07      | 1.78           |
| 2017/01/21 04:40 | 1.61       | 52.92      | 1.88           |
| 2017/01/21 04:55 | 1.62       | 56.60      | 1.99           |
| 2017/01/21 05:10 | 1.68       | 59.44      | 1.99           |
| 2017/01/21 05:25 | 1.72       | 64.03      | 2.06           |
| 2017/01/21 05:40 | 1.80       | 68.89      | 2.07           |
| 2017/01/21 05:55 | 1.98       | 79.37      | 2.08           |
| 2017/01/21 06:10 | 2.04       | 83.96      | 2.11           |
| 2017/01/21 06:25 | 2.07       | 85.62      | 2.11           |
| 2017/01/21 06:40 | 2.11       | 88.75      | 2.13           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 06:55 | 2.36       | 105.07     | 2.15           |
| 2017/01/21 07:10 | 2.54       | 142.50     | 2.62           |
| 2017/01/21 07:25 | 2.86       | 172.50     | 2.68           |
| 2017/01/21 07:40 | 2.87       | 180.49     | 2.78           |
| 2017/01/21 07:55 | 3.14       | 207.99     | 2.84           |
| 2017/01/21 08:10 | 3.54       | 249.79     | 2.88           |
| 2017/01/21 08:25 | 3.71       | 278.12     | 3.00           |
| 2017/01/21 08:40 | 4.05       | 330.28     | 3.15           |
| 2017/01/21 08:55 | 4.12       | 338.05     | 3.15           |
| 2017/01/21 09:10 | 4.30       | 384.23     | 3.38           |
| 2017/01/21 09:25 | 4.33       | 387.57     | 3.38           |
| 2017/01/21 09:40 | 4.36       | 390.97     | 3.38           |
| 2017/01/21 09:55 | 4.68       | 442.15     | 3.48           |
| 2017/01/21 10:10 | 4.73       | 455.07     | 3.52           |
| 2017/01/21 10:25 | 4.73       | 468.89     | 3.63           |
| 2017/01/21 10:40 | 4.73       | 468.89     | 3.63           |
| 2017/01/21 10:55 | 4.82       | 489.65     | 3.70           |
| 2017/01/21 11:10 | 4.68       | 476.87     | 3.75           |
| 2017/01/21 11:25 | 4.64       | 465.21     | 3.70           |
| 2017/01/21 11:40 | 4.61       | 445.90     | 3.58           |
| 2017/01/21 11:55 | 4.61       | 422.08     | 3.39           |
| 2017/01/21 12:10 | 4.47       | 405.07     | 3.39           |
| 2017/01/21 12:25 | 4.44       | 394.58     | 3.33           |
| 2017/01/21 12:40 | 4.44       | 401.67     | 3.39           |
| 2017/01/21 12:55 | 4.47       | 413.47     | 3.46           |
| 2017/01/21 13:10 | 4.47       | 413.47     | 3.46           |
| 2017/01/21 13:25 | 4.47       | 391.87     | 3.28           |
| 2017/01/21 13:40 | 4.47       | 409.10     | 3.42           |
| 2017/01/21 13:55 | 4.39       | 385.62     | 3.31           |
| 2017/01/21 14:10 | 4.39       | 377.43     | 3.24           |
| 2017/01/21 14:25 | 4.34       | 372.57     | 3.24           |
| 2017/01/21 14:40 | 4.30       | 375.00     | 3.30           |
| 2017/01/21 14:55 | 4.25       | 362.64     | 3.25           |
| 2017/01/21 15:10 | 4.12       | 342.64     | 3.20           |
| 2017/01/21 15:25 | 3.93       | 325.55     | 3.25           |
| 2017/01/21 15:40 | 3.87       | 319.24     | 3.25           |
| 2017/01/21 15:55 | 3.87       | 314.44     | 3.20           |
| 2017/01/21 16:10 | 3.87       | 314.03     | 3.19           |
| 2017/01/21 16:25 | 3.91       | 315.62     | 3.16           |
| 2017/01/21 16:40 | 4.05       | 331.11     | 3.16           |
| 2017/01/21 16:55 | 4.11       | 340.55     | 3.19           |
| 2017/01/21 17:10 | 4.08       | 348.54     | 3.30           |
| 2017/01/21 17:25 | 4.05       | 345.28     | 3.30           |
| 2017/01/21 17:40 | 4.08       | 348.54     | 3.30           |
| 2017/01/21 17:55 | 4.08       | 348.19     | 3.29           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 18:10 | 4.02       | 319.10     | 3.08           |
| 2017/01/21 18:25 | 4.02       | 319.10     | 3.08           |
| 2017/01/21 18:40 | 4.02       | 330.07     | 3.18           |
| 2017/01/21 18:55 | 3.96       | 330.42     | 3.26           |
| 2017/01/21 19:10 | 3.94       | 320.69     | 3.18           |
| 2017/01/21 19:25 | 3.84       | 309.86     | 3.18           |
| 2017/01/21 19:40 | 3.84       | 306.87     | 3.15           |
| 2017/01/21 19:55 | 3.77       | 288.96     | 3.04           |
| 2017/01/21 20:10 | 3.80       | 291.94     | 3.04           |
| 2017/01/21 20:25 | 3.76       | 287.50     | 3.04           |
| 2017/01/21 20:40 | 3.76       | 278.12     | 2.94           |
| 2017/01/21 20:55 | 3.48       | 250.07     | 2.94           |
| 2017/01/21 21:10 | 3.46       | 247.29     | 2.94           |
| 2017/01/21 21:25 | 3.43       | 239.24     | 2.88           |
| 2017/01/21 21:40 | 3.23       | 219.86     | 2.87           |
| 2017/01/21 21:55 | 3.22       | 218.54     | 2.87           |
| 2017/01/21 22:10 | 3.19       | 202.64     | 2.69           |
| 2017/01/21 22:25 | 3.15       | 188.75     | 2.56           |
| 2017/01/21 22:40 | 3.11       | 185.28     | 2.56           |
| 2017/01/21 22:55 | 3.02       | 177.50     | 2.55           |
| 2017/01/21 23:10 | 2.91       | 165.62     | 2.50           |
| 2017/01/21 23:25 | 2.89       | 166.87     | 2.56           |
| 2017/01/21 23:40 | 2.87       | 170.76     | 2.64           |
| 2017/01/21 23:55 | 2.86       | 152.64     | 2.37           |
| 2017/01/22 00:10 | 2.75       | 142.99     | 2.35           |
| 2017/01/22 00:25 | 2.73       | 139.03     | 2.30           |
| 2017/01/22 00:40 | 2.50       | 117.71     | 2.22           |
| 2017/01/22 00:55 | 2.50       | 117.71     | 2.22           |
| 2017/01/22 01:10 | 2.44       | 112.08     | 2.18           |
| 2017/01/22 01:25 | 2.28       | 99.93      | 2.15           |
| 2017/01/22 01:40 | 2.19       | 94.72      | 2.15           |
| 2017/01/22 01:55 | 2.14       | 91.32      | 2.15           |
| 2017/01/22 02:10 | 2.14       | 89.51      | 2.11           |
| 2017/01/22 02:25 | 2.14       | 89.51      | 2.11           |
| 2017/01/22 02:40 | 2.11       | 87.85      | 2.11           |
| 2017/01/22 02:55 | 2.05       | 81.94      | 2.04           |
| 2017/01/22 03:10 | 2.01       | 78.19      | 2.01           |
| 2017/01/22 03:25 | 1.97       | 75.83      | 2.01           |
| 2017/01/22 03:40 | 1.90       | 72.01      | 2.01           |
| 2017/01/22 03:55 | 1.87       | 70.49      | 2.01           |
| 2017/01/22 04:10 | 1.87       | 70.49      | 2.01           |
| 2017/01/22 04:25 | 1.87       | 71.39      | 2.03           |
| 2017/01/22 04:40 | 2.05       | 87.29      | 2.18           |
| 2017/01/22 04:55 | 2.05       | 87.29      | 2.18           |
| 2017/01/22 05:10 | 2.05       | 85.42      | 2.13           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 05:25 | 2.09       | 83.89      | 2.03           |
| 2017/01/22 05:40 | 2.09       | 87.92      | 2.13           |
| 2017/01/22 05:55 | 2.09       | 87.92      | 2.13           |
| 2017/01/22 06:10 | 2.55       | 132.92     | 2.42           |
| 2017/01/22 06:25 | 2.55       | 132.92     | 2.42           |
| 2017/01/22 06:40 | 2.58       | 135.00     | 2.42           |
| 2017/01/22 06:55 | 2.58       | 134.93     | 2.42           |
| 2017/01/22 07:10 | 2.58       | 134.93     | 2.42           |
| 2017/01/22 07:25 | 2.58       | 134.93     | 2.42           |
| 2017/01/22 07:40 | 2.62       | 141.46     | 2.48           |
| 2017/01/22 07:55 | 3.02       | 182.01     | 2.61           |
| 2017/01/22 08:10 | 3.68       | 280.14     | 3.06           |
| 2017/01/22 08:25 | 3.73       | 301.46     | 3.22           |
| 2017/01/22 08:40 | 3.82       | 310.76     | 3.22           |
| 2017/01/22 08:55 | 3.82       | 310.76     | 3.22           |
| 2017/01/22 09:10 | 3.82       | 316.80     | 3.29           |
| 2017/01/22 09:25 | 4.57       | 428.82     | 3.48           |
| 2017/01/22 09:40 | 4.87       | 467.71     | 3.48           |
| 2017/01/22 09:55 | 4.87       | 488.61     | 3.64           |
| 2017/01/22 10:10 | 4.97       | 480.14     | 3.48           |
| 2017/01/22 10:25 | 4.93       | 474.79     | 3.48           |
| 2017/01/22 10:40 | 4.93       | 498.96     | 3.66           |
| 2017/01/22 10:55 | 4.97       | 540.97     | 3.92           |
| 2017/01/22 11:10 | 5.44       | 609.58     | 3.92           |
| 2017/01/22 11:25 | 5.75       | 654.30     | 3.92           |
| 2017/01/22 11:40 | 5.93       | 664.65     | 3.83           |
| 2017/01/22 11:55 | 5.97       | 670.62     | 3.83           |
| 2017/01/22 12:10 | 6.04       | 680.55     | 3.83           |
| 2017/01/22 12:25 | 6.34       | 724.30     | 3.83           |
| 2017/01/22 12:40 | 7.32       | 811.87     | 3.61           |
| 2017/01/22 12:55 | 7.45       | 673.54     | 2.93           |
| 2017/01/22 13:10 | 7.80       | 619.72     | 2.55           |
| 2017/01/22 13:25 | 8.14       | 649.79     | 2.55           |
| 2017/01/22 13:40 | 8.26       | 453.26     | 1.75           |
| 2017/01/22 13:55 | 8.36       | 767.08     | 2.93           |
| 2017/01/22 14:10 | 8.91       | 835.83     | 2.98           |
| 2017/01/22 14:25 | 9.47       | 888.19     | 2.98           |
| 2017/01/22 14:40 | 11.31      | 603.47     | 1.75           |
| 2017/01/22 14:55 | 12.93      | 458.05     | 1.30           |
| 2017/01/22 15:10 | 12.93      | 458.05     | 1.30           |
| 2017/01/22 15:25 | 12.93      | 458.05     | 1.30           |
| 2017/01/22 15:40 | 12.93      | 477.36     | 1.36           |
| 2017/01/22 15:55 | 12.93      | 488.12     | 1.39           |
| 2017/01/22 16:10 | 8.80       | 531.94     | 1.92           |
| 2017/01/22 16:25 | 6.68       | 498.05     | 2.47           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 16:40 | 4.97       | 426.18     | 3.09           |
| 2017/01/22 16:55 | 3.46       | 259.30     | 3.08           |
| 2017/01/22 17:10 | 3.44       | 245.83     | 2.94           |
| 2017/01/22 17:25 | 3.40       | 241.87     | 2.94           |
| 2017/01/22 17:40 | 3.40       | 262.71     | 3.20           |
| 2017/01/22 17:55 | 3.40       | 266.94     | 3.25           |
| 2017/01/22 18:10 | 3.43       | 272.43     | 3.28           |
| 2017/01/22 18:25 | 3.48       | 279.65     | 3.30           |
| 2017/01/22 18:40 | 3.48       | 277.99     | 3.28           |
| 2017/01/22 18:55 | 3.48       | 277.99     | 3.28           |
| 2017/01/22 19:10 | 3.48       | 277.99     | 3.28           |
| 2017/01/22 19:25 | 3.55       | 287.50     | 3.30           |
| 2017/01/22 19:40 | 3.57       | 286.32     | 3.26           |
| 2017/01/22 19:55 | 3.62       | 291.87     | 3.26           |
| 2017/01/22 20:10 | 3.66       | 298.12     | 3.28           |
| 2017/01/22 20:25 | 3.68       | 278.33     | 3.04           |
| 2017/01/22 20:40 | 3.71       | 281.46     | 3.04           |
| 2017/01/22 20:55 | 3.76       | 299.65     | 3.17           |
| 2017/01/22 21:10 | 3.76       | 309.44     | 3.28           |
| 2017/01/22 21:25 | 3.76       | 327.29     | 3.46           |
| 2017/01/22 21:40 | 3.76       | 327.29     | 3.46           |
| 2017/01/22 21:55 | 3.76       | 327.29     | 3.46           |
| 2017/01/22 22:10 | 3.77       | 331.53     | 3.50           |
| 2017/01/22 22:25 | 3.77       | 328.47     | 3.46           |
| 2017/01/22 22:40 | 3.77       | 292.71     | 3.09           |
| 2017/01/22 22:55 | 3.72       | 281.32     | 3.02           |
| 2017/01/22 23:10 | 3.44       | 251.80     | 3.02           |
| 2017/01/22 23:25 | 3.41       | 238.05     | 2.89           |
| 2017/01/22 23:40 | 3.36       | 233.19     | 2.89           |
| 2017/01/22 23:55 | 3.26       | 189.30     | 2.44           |
| 2017/01/23 00:10 | 2.93       | 108.75     | 1.63           |
| 2017/01/23 00:25 | 2.82       | 98.12      | 1.55           |
| 2017/01/23 00:40 | 2.69       | 89.03      | 1.51           |
| 2017/01/23 00:55 | 2.43       | 70.76      | 1.38           |
| 2017/01/23 01:10 | 2.37       | 62.50      | 1.27           |
| 2017/01/23 01:25 | 2.34       | 59.79      | 1.24           |
| 2017/01/23 01:40 | 2.25       | 56.53      | 1.24           |
| 2017/01/23 01:55 | 2.15       | 54.31      | 1.27           |
| 2017/01/23 02:10 | 2.15       | 54.31      | 1.27           |
| 2017/01/23 02:25 | 2.11       | 43.40      | 1.04           |
| 2017/01/23 02:40 | 2.03       | 48.19      | 1.22           |
| 2017/01/23 02:55 | 1.94       | 37.71      | 1.02           |
| 2017/01/23 03:10 | 1.94       | 37.71      | 1.02           |
| 2017/01/23 03:25 | 1.94       | 37.71      | 1.02           |
| 2017/01/23 03:40 | 2.08       | 47.85      | 1.17           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 03:55 | 2.11       | 48.82      | 1.17           |
| 2017/01/23 04:10 | 2.15       | 50.97      | 1.19           |
| 2017/01/23 04:25 | 2.15       | 50.97      | 1.19           |
| 2017/01/23 04:40 | 2.18       | 57.43      | 1.31           |
| 2017/01/23 04:55 | 2.18       | 57.43      | 1.31           |
| 2017/01/23 05:10 | 2.25       | 60.07      | 1.31           |
| 2017/01/23 05:25 | 2.34       | 61.67      | 1.27           |
| 2017/01/23 05:40 | 2.36       | 62.43      | 1.27           |
| 2017/01/23 05:55 | 2.43       | 65.07      | 1.27           |
| 2017/01/23 06:10 | 2.65       | 87.92      | 1.52           |
| 2017/01/23 06:25 | 2.80       | 95.07      | 1.52           |
| 2017/01/23 06:40 | 2.84       | 100.76     | 1.58           |
| 2017/01/23 06:55 | 3.08       | 113.40     | 1.59           |
| 2017/01/23 07:10 | 3.21       | 137.43     | 1.81           |
| 2017/01/23 07:25 | 3.47       | 181.80     | 2.15           |
| 2017/01/23 07:40 | 3.64       | 296.46     | 3.28           |
| 2017/01/23 07:55 | 3.64       | 296.46     | 3.28           |
| 2017/01/23 08:10 | 3.64       | 296.46     | 3.28           |
| 2017/01/23 08:25 | 3.58       | 279.93     | 3.17           |
| 2017/01/23 08:40 | 3.50       | 264.10     | 3.09           |
| 2017/01/23 08:55 | 3.50       | 253.54     | 2.96           |
| 2017/01/23 09:10 | 3.43       | 246.46     | 2.96           |
| 2017/01/23 09:25 | 3.50       | 264.10     | 3.09           |
| 2017/01/23 09:40 | 3.43       | 249.17     | 3.00           |
| 2017/01/23 09:55 | 3.41       | 254.65     | 3.09           |
| 2017/01/23 10:10 | 3.43       | 256.74     | 3.09           |
| 2017/01/23 10:25 | 3.47       | 262.01     | 3.10           |
| 2017/01/23 10:40 | 3.47       | 262.01     | 3.10           |
| 2017/01/23 10:55 | 3.51       | 266.25     | 3.10           |
| 2017/01/23 11:10 | 3.57       | 253.75     | 2.89           |
| 2017/01/23 11:25 | 3.51       | 247.85     | 2.89           |
| 2017/01/23 11:40 | 3.54       | 250.76     | 2.89           |
| 2017/01/23 11:55 | 3.51       | 242.78     | 2.83           |
| 2017/01/23 12:10 | 3.51       | 237.22     | 2.76           |
| 2017/01/23 12:25 | 3.50       | 236.25     | 2.76           |
| 2017/01/23 12:40 | 3.47       | 245.00     | 2.90           |
| 2017/01/23 12:55 | 3.47       | 245.00     | 2.90           |
| 2017/01/23 13:10 | 3.50       | 280.76     | 3.28           |
| 2017/01/23 13:25 | 3.51       | 282.99     | 3.30           |
| 2017/01/23 13:40 | 3.52       | 282.99     | 3.28           |
| 2017/01/23 13:55 | 3.52       | 284.10     | 3.30           |
| 2017/01/23 14:10 | 3.52       | 282.99     | 3.28           |
| 2017/01/23 14:25 | 3.52       | 280.76     | 3.26           |
| 2017/01/23 14:40 | 3.52       | 280.76     | 3.26           |
| 2017/01/23 14:55 | 3.54       | 282.99     | 3.26           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 15:10 | 3.54       | 282.99     | 3.26           |
| 2017/01/23 15:25 | 3.61       | 292.50     | 3.28           |
| 2017/01/23 15:40 | 3.61       | 300.07     | 3.36           |
| 2017/01/23 15:55 | 3.48       | 282.36     | 3.33           |
| 2017/01/23 16:10 | 3.48       | 285.14     | 3.36           |
| 2017/01/23 16:25 | 3.59       | 313.26     | 3.54           |
| 2017/01/23 16:40 | 3.59       | 313.26     | 3.54           |
| 2017/01/23 16:55 | 3.62       | 316.94     | 3.54           |
| 2017/01/23 17:10 | 3.62       | 316.94     | 3.54           |
| 2017/01/23 17:25 | 3.62       | 302.92     | 3.38           |
| 2017/01/23 17:40 | 3.52       | 291.39     | 3.38           |
| 2017/01/23 17:55 | 3.52       | 287.50     | 3.33           |
| 2017/01/23 18:10 | 3.52       | 287.50     | 3.33           |
| 2017/01/23 18:25 | 3.64       | 301.18     | 3.33           |
| 2017/01/23 18:40 | 3.68       | 310.55     | 3.39           |
| 2017/01/23 18:55 | 3.68       | 317.08     | 3.46           |
| 2017/01/23 19:10 | 3.68       | 321.87     | 3.51           |
| 2017/01/23 19:25 | 3.65       | 318.19     | 3.51           |
| 2017/01/23 19:40 | 3.62       | 309.93     | 3.46           |
| 2017/01/23 19:55 | 3.48       | 256.46     | 3.02           |
| 2017/01/23 20:10 | 3.48       | 256.46     | 3.02           |
| 2017/01/23 20:25 | 3.48       | 256.46     | 3.02           |
| 2017/01/23 20:40 | 3.51       | 289.65     | 3.37           |
| 2017/01/23 20:55 | 3.55       | 300.49     | 3.44           |
| 2017/01/23 21:10 | 3.61       | 307.57     | 3.44           |
| 2017/01/23 21:25 | 3.64       | 311.11     | 3.44           |
| 2017/01/23 21:40 | 3.68       | 306.94     | 3.35           |
| 2017/01/23 21:55 | 3.68       | 306.94     | 3.35           |
| 2017/01/23 22:10 | 3.71       | 310.42     | 3.35           |
| 2017/01/23 22:25 | 3.82       | 332.64     | 3.44           |
| 2017/01/23 22:40 | 3.83       | 333.82     | 3.44           |
| 2017/01/23 22:55 | 3.83       | 338.82     | 3.50           |
| 2017/01/23 23:10 | 3.82       | 337.64     | 3.50           |
| 2017/01/23 23:25 | 3.79       | 327.15     | 3.43           |
| 2017/01/23 23:40 | 3.44       | 270.83     | 3.24           |
| 2017/01/23 23:55 | 3.37       | 192.99     | 2.38           |
| 2017/01/24 00:10 | 3.22       | 133.61     | 1.75           |
| 2017/01/24 00:25 | 2.98       | 114.51     | 1.68           |
| 2017/01/24 00:40 | 2.91       | 109.86     | 1.66           |
| 2017/01/24 00:55 | 2.73       | 88.19      | 1.46           |
| 2017/01/24 01:10 | 2.72       | 85.42      | 1.42           |
| 2017/01/24 01:25 | 2.72       | 81.11      | 1.35           |
| 2017/01/24 01:40 | 2.64       | 76.25      | 1.33           |
| 2017/01/24 01:55 | 2.46       | 68.96      | 1.33           |
| 2017/01/24 02:10 | 2.37       | 65.07      | 1.32           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 02:25 | 2.36       | 57.64      | 1.18           |
| 2017/01/24 02:40 | 2.34       | 56.94      | 1.18           |
| 2017/01/24 02:55 | 2.28       | 54.24      | 1.16           |
| 2017/01/24 03:10 | 2.28       | 52.43      | 1.12           |
| 2017/01/24 03:25 | 2.28       | 52.43      | 1.12           |
| 2017/01/24 03:40 | 2.23       | 50.76      | 1.12           |
| 2017/01/24 03:55 | 2.23       | 50.76      | 1.12           |
| 2017/01/24 04:10 | 2.23       | 51.94      | 1.15           |
| 2017/01/24 04:25 | 2.29       | 58.89      | 1.25           |
| 2017/01/24 04:40 | 2.30       | 59.24      | 1.25           |
| 2017/01/24 04:55 | 2.39       | 63.26      | 1.27           |
| 2017/01/24 05:10 | 2.41       | 65.62      | 1.30           |
| 2017/01/24 05:25 | 2.54       | 72.50      | 1.33           |
| 2017/01/24 05:40 | 2.61       | 80.14      | 1.42           |
| 2017/01/24 05:55 | 2.68       | 84.03      | 1.43           |
| 2017/01/24 06:10 | 2.69       | 85.21      | 1.44           |
| 2017/01/24 06:25 | 2.89       | 97.29      | 1.49           |
| 2017/01/24 06:40 | 2.94       | 104.51     | 1.56           |
| 2017/01/24 06:55 | 3.26       | 140.97     | 1.82           |
| 2017/01/24 07:10 | 3.40       | 177.78     | 2.16           |
| 2017/01/24 07:25 | 3.57       | 299.44     | 3.41           |
| 2017/01/24 07:40 | 3.82       | 335.14     | 3.47           |
| 2017/01/24 07:55 | 3.83       | 336.32     | 3.47           |
| 2017/01/24 08:10 | 3.83       | 336.32     | 3.47           |
| 2017/01/24 08:25 | 3.83       | 310.49     | 3.20           |
| 2017/01/24 08:40 | 3.83       | 300.42     | 3.10           |
| 2017/01/24 08:55 | 3.75       | 283.26     | 3.01           |
| 2017/01/24 09:10 | 3.58       | 263.89     | 2.99           |
| 2017/01/24 09:25 | 3.57       | 262.85     | 2.99           |
| 2017/01/24 09:40 | 3.47       | 249.37     | 2.95           |
| 2017/01/24 09:55 | 3.55       | 248.33     | 2.85           |
| 2017/01/24 10:10 | 3.55       | 248.33     | 2.85           |
| 2017/01/24 10:25 | 3.54       | 256.39     | 2.95           |
| 2017/01/24 10:40 | 3.55       | 264.24     | 3.03           |
| 2017/01/24 10:55 | 3.55       | 280.14     | 3.21           |
| 2017/01/24 11:10 | 3.54       | 279.03     | 3.21           |
| 2017/01/24 11:25 | 3.51       | 282.43     | 3.29           |
| 2017/01/24 11:40 | 3.50       | 268.54     | 3.14           |
| 2017/01/24 11:55 | 3.50       | 239.58     | 2.80           |
| 2017/01/24 12:10 | 3.45       | 263.19     | 3.14           |
| 2017/01/24 12:25 | 3.45       | 274.65     | 3.28           |
| 2017/01/24 12:40 | 3.43       | 272.43     | 3.28           |
| 2017/01/24 12:55 | 3.45       | 274.65     | 3.28           |
| 2017/01/24 13:10 | 3.54       | 284.65     | 3.28           |
| 2017/01/24 13:25 | 3.55       | 283.54     | 3.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 13:40 | 3.54       | 279.03     | 3.21           |
| 2017/01/24 13:55 | 3.54       | 279.03     | 3.21           |
| 2017/01/24 14:10 | 3.55       | 280.14     | 3.21           |
| 2017/01/24 14:25 | 3.58       | 286.87     | 3.25           |
| 2017/01/24 14:40 | 3.61       | 298.33     | 3.34           |
| 2017/01/24 14:55 | 3.61       | 298.33     | 3.34           |
| 2017/01/24 15:10 | 3.63       | 300.62     | 3.34           |
| 2017/01/24 15:25 | 3.63       | 301.80     | 3.35           |
| 2017/01/24 15:40 | 3.63       | 301.80     | 3.35           |
| 2017/01/24 15:55 | 3.50       | 296.32     | 3.46           |
| 2017/01/24 16:10 | 3.47       | 292.78     | 3.46           |
| 2017/01/24 16:25 | 3.47       | 275.76     | 3.26           |
| 2017/01/24 16:40 | 3.47       | 266.94     | 3.16           |
| 2017/01/24 16:55 | 3.50       | 279.10     | 3.26           |
| 2017/01/24 17:10 | 3.50       | 279.10     | 3.26           |
| 2017/01/24 17:25 | 3.50       | 294.10     | 3.44           |
| 2017/01/24 17:40 | 3.50       | 294.65     | 3.44           |
| 2017/01/24 17:55 | 3.45       | 306.80     | 3.66           |
| 2017/01/24 18:10 | 3.45       | 306.80     | 3.66           |
| 2017/01/24 18:25 | 3.54       | 317.99     | 3.66           |
| 2017/01/24 18:40 | 3.56       | 321.04     | 3.67           |
| 2017/01/24 18:55 | 3.62       | 328.61     | 3.67           |
| 2017/01/24 19:10 | 3.65       | 332.36     | 3.67           |
| 2017/01/24 19:25 | 3.66       | 333.61     | 3.67           |
| 2017/01/24 19:40 | 3.73       | 325.49     | 3.48           |
| 2017/01/24 19:55 | 3.74       | 312.08     | 3.33           |
| 2017/01/24 20:10 | 3.81       | 320.14     | 3.33           |
| 2017/01/24 20:25 | 3.96       | 337.64     | 3.33           |
| 2017/01/24 20:40 | 4.16       | 401.39     | 3.70           |
| 2017/01/24 20:55 | 4.16       | 407.01     | 3.75           |
| 2017/01/24 21:10 | 4.01       | 387.08     | 3.75           |
| 2017/01/24 21:25 | 4.01       | 381.73     | 3.70           |
| 2017/01/24 21:40 | 4.13       | 404.44     | 3.76           |
| 2017/01/24 21:55 | 4.01       | 337.43     | 3.27           |
| 2017/01/24 22:10 | 4.01       | 337.43     | 3.27           |
| 2017/01/24 22:25 | 3.98       | 389.10     | 3.81           |
| 2017/01/24 22:40 | 3.87       | 374.37     | 3.81           |
| 2017/01/24 22:55 | 3.78       | 348.82     | 3.67           |
| 2017/01/24 23:10 | 3.70       | 338.68     | 3.67           |
| 2017/01/24 23:25 | 3.54       | 300.49     | 3.46           |
| 2017/01/24 23:40 | 3.50       | 266.32     | 3.11           |
| 2017/01/24 23:55 | 3.44       | 259.93     | 3.11           |
| 2017/01/25 00:10 | 3.36       | 251.04     | 3.11           |
| 2017/01/25 00:25 | 3.29       | 243.75     | 3.11           |
| 2017/01/25 00:40 | 3.08       | 121.32     | 1.70           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 00:55 | 2.79       | 96.60      | 1.55           |
| 2017/01/25 01:10 | 2.72       | 90.49      | 1.51           |
| 2017/01/25 01:25 | 2.64       | 85.62      | 1.49           |
| 2017/01/25 01:40 | 2.46       | 71.32      | 1.37           |
| 2017/01/25 01:55 | 2.42       | 64.37      | 1.27           |
| 2017/01/25 02:10 | 2.19       | 55.49      | 1.26           |
| 2017/01/25 02:25 | 2.17       | 53.61      | 1.24           |
| 2017/01/25 02:40 | 2.17       | 50.28      | 1.16           |
| 2017/01/25 02:55 | 2.17       | 53.33      | 1.23           |
| 2017/01/25 03:10 | 2.19       | 54.10      | 1.23           |
| 2017/01/25 03:25 | 2.19       | 54.10      | 1.23           |
| 2017/01/25 03:40 | 2.19       | 54.10      | 1.23           |
| 2017/01/25 03:55 | 2.26       | 56.87      | 1.24           |
| 2017/01/25 04:10 | 2.31       | 58.68      | 1.24           |
| 2017/01/25 04:25 | 2.33       | 59.44      | 1.24           |
| 2017/01/25 04:40 | 2.39       | 65.21      | 1.31           |
| 2017/01/25 04:55 | 2.40       | 66.25      | 1.32           |
| 2017/01/25 05:10 | 2.47       | 72.78      | 1.39           |
| 2017/01/25 05:25 | 2.61       | 81.25      | 1.44           |
| 2017/01/25 05:40 | 2.65       | 89.03      | 1.54           |
| 2017/01/25 05:55 | 2.67       | 92.29      | 1.58           |
| 2017/01/25 06:10 | 2.81       | 99.24      | 1.58           |
| 2017/01/25 06:25 | 2.90       | 105.49     | 1.61           |
| 2017/01/25 06:40 | 2.93       | 115.69     | 1.74           |
| 2017/01/25 06:55 | 3.19       | 137.22     | 1.83           |
| 2017/01/25 07:10 | 3.71       | 307.43     | 3.32           |
| 2017/01/25 07:25 | 3.84       | 322.36     | 3.32           |
| 2017/01/25 07:40 | 3.88       | 353.26     | 3.58           |
| 2017/01/25 07:55 | 3.88       | 359.10     | 3.64           |
| 2017/01/25 08:10 | 3.88       | 359.10     | 3.64           |
| 2017/01/25 08:25 | 3.88       | 354.58     | 3.59           |
| 2017/01/25 08:40 | 3.62       | 322.15     | 3.59           |
| 2017/01/25 08:55 | 3.62       | 322.15     | 3.59           |
| 2017/01/25 09:10 | 3.61       | 312.85     | 3.50           |
| 2017/01/25 09:25 | 3.58       | 305.76     | 3.46           |
| 2017/01/25 09:40 | 3.54       | 301.04     | 3.46           |
| 2017/01/25 09:55 | 3.52       | 295.35     | 3.43           |
| 2017/01/25 10:10 | 3.52       | 263.40     | 3.06           |
| 2017/01/25 10:25 | 3.52       | 263.40     | 3.06           |
| 2017/01/25 10:40 | 3.52       | 263.40     | 3.06           |
| 2017/01/25 10:55 | 3.55       | 301.67     | 3.46           |
| 2017/01/25 11:10 | 3.55       | 301.67     | 3.46           |
| 2017/01/25 11:25 | 3.55       | 301.67     | 3.46           |
| 2017/01/25 11:40 | 3.50       | 285.21     | 3.33           |
| 2017/01/25 11:55 | 3.48       | 281.80     | 3.32           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 12:10 | 3.44       | 274.10     | 3.28           |
| 2017/01/25 12:25 | 3.44       | 274.10     | 3.28           |
| 2017/01/25 12:40 | 3.43       | 265.90     | 3.20           |
| 2017/01/25 12:55 | 3.43       | 265.90     | 3.20           |
| 2017/01/25 13:10 | 3.43       | 276.74     | 3.33           |
| 2017/01/25 13:25 | 3.45       | 287.15     | 3.43           |
| 2017/01/25 13:40 | 3.50       | 297.99     | 3.48           |
| 2017/01/25 13:55 | 3.52       | 300.35     | 3.48           |
| 2017/01/25 14:10 | 3.56       | 305.14     | 3.48           |
| 2017/01/25 14:25 | 3.62       | 335.00     | 3.74           |
| 2017/01/25 14:40 | 3.62       | 335.00     | 3.74           |
| 2017/01/25 14:55 | 3.62       | 335.00     | 3.74           |
| 2017/01/25 15:10 | 3.61       | 333.68     | 3.74           |
| 2017/01/25 15:25 | 3.61       | 328.47     | 3.68           |
| 2017/01/25 15:40 | 3.51       | 306.46     | 3.57           |
| 2017/01/25 15:55 | 3.47       | 290.07     | 3.43           |
| 2017/01/25 16:10 | 3.45       | 287.71     | 3.43           |
| 2017/01/25 16:25 | 3.47       | 290.07     | 3.43           |
| 2017/01/25 16:40 | 3.51       | 294.72     | 3.43           |
| 2017/01/25 16:55 | 3.51       | 294.72     | 3.43           |
| 2017/01/25 17:10 | 3.52       | 299.24     | 3.47           |
| 2017/01/25 17:25 | 3.52       | 299.24     | 3.47           |
| 2017/01/25 17:40 | 3.52       | 303.75     | 3.52           |
| 2017/01/25 17:55 | 3.55       | 294.86     | 3.38           |
| 2017/01/25 18:10 | 3.59       | 312.15     | 3.52           |
| 2017/01/25 18:25 | 3.61       | 330.83     | 3.70           |
| 2017/01/25 18:40 | 3.74       | 347.43     | 3.70           |
| 2017/01/25 18:55 | 3.76       | 348.75     | 3.69           |
| 2017/01/25 19:10 | 3.87       | 362.92     | 3.69           |
| 2017/01/25 19:25 | 3.91       | 360.28     | 3.61           |
| 2017/01/25 19:40 | 3.91       | 360.28     | 3.61           |
| 2017/01/25 19:55 | 3.87       | 355.21     | 3.61           |
| 2017/01/25 20:10 | 3.87       | 367.36     | 3.74           |
| 2017/01/25 20:25 | 3.89       | 370.00     | 3.74           |
| 2017/01/25 20:40 | 3.89       | 370.00     | 3.74           |
| 2017/01/25 20:55 | 3.95       | 377.85     | 3.74           |
| 2017/01/25 21:10 | 3.95       | 376.53     | 3.72           |
| 2017/01/25 21:25 | 3.99       | 381.80     | 3.72           |
| 2017/01/25 21:40 | 3.99       | 365.14     | 3.56           |
| 2017/01/25 21:55 | 3.99       | 379.79     | 3.70           |
| 2017/01/25 22:10 | 3.95       | 374.58     | 3.70           |
| 2017/01/25 22:25 | 3.95       | 374.58     | 3.70           |
| 2017/01/25 22:40 | 3.95       | 374.58     | 3.70           |
| 2017/01/25 22:55 | 3.94       | 374.58     | 3.72           |
| 2017/01/25 23:10 | 3.92       | 371.94     | 3.72           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 23:25 | 3.66       | 311.74     | 3.43           |
| 2017/01/25 23:40 | 3.44       | 274.10     | 3.28           |
| 2017/01/25 23:55 | 3.36       | 260.00     | 3.22           |
| 2017/01/26 00:10 | 3.11       | 129.58     | 1.79           |
| 2017/01/26 00:25 | 2.98       | 122.01     | 1.79           |
| 2017/01/26 00:40 | 2.94       | 115.83     | 1.73           |
| 2017/01/26 00:55 | 2.90       | 113.61     | 1.73           |
| 2017/01/26 01:10 | 2.78       | 103.40     | 1.67           |
| 2017/01/26 01:25 | 2.60       | 84.51      | 1.50           |
| 2017/01/26 01:40 | 2.47       | 74.10      | 1.42           |
| 2017/01/26 01:55 | 2.46       | 66.25      | 1.27           |
| 2017/01/26 02:10 | 2.46       | 66.25      | 1.27           |
| 2017/01/26 02:25 | 2.46       | 73.68      | 1.42           |
| 2017/01/26 02:40 | 2.46       | 72.29      | 1.39           |
| 2017/01/26 02:55 | 2.46       | 72.29      | 1.39           |
| 2017/01/26 03:10 | 2.43       | 71.04      | 1.39           |
| 2017/01/26 03:25 | 2.39       | 64.51      | 1.29           |
| 2017/01/26 03:40 | 2.35       | 62.01      | 1.27           |
| 2017/01/26 03:55 | 2.33       | 60.97      | 1.27           |
| 2017/01/26 04:10 | 2.33       | 61.32      | 1.27           |
| 2017/01/26 04:25 | 2.33       | 61.32      | 1.27           |
| 2017/01/26 04:40 | 2.33       | 60.07      | 1.25           |
| 2017/01/26 04:55 | 2.36       | 63.06      | 1.29           |
| 2017/01/26 05:10 | 2.44       | 72.50      | 1.41           |
| 2017/01/26 05:25 | 2.53       | 80.90      | 1.50           |
| 2017/01/26 05:40 | 2.57       | 84.17      | 1.52           |
| 2017/01/26 05:55 | 2.58       | 88.61      | 1.59           |
| 2017/01/26 06:10 | 2.87       | 103.12     | 1.59           |
| 2017/01/26 06:25 | 3.00       | 121.87     | 1.77           |
| 2017/01/26 06:40 | 3.15       | 132.92     | 1.80           |
| 2017/01/26 06:55 | 3.33       | 165.42     | 2.07           |
| 2017/01/26 07:10 | 3.58       | 328.75     | 3.72           |
| 2017/01/26 07:25 | 3.81       | 377.71     | 3.93           |
| 2017/01/26 07:40 | 3.85       | 387.57     | 3.97           |
| 2017/01/26 07:55 | 3.89       | 393.12     | 3.97           |
| 2017/01/26 08:10 | 3.89       | 388.68     | 3.93           |
| 2017/01/26 08:25 | 3.89       | 354.51     | 3.58           |
| 2017/01/26 08:40 | 3.56       | 313.68     | 3.58           |
| 2017/01/26 08:55 | 3.52       | 281.87     | 3.27           |
| 2017/01/26 09:10 | 3.52       | 281.87     | 3.27           |
| 2017/01/26 09:25 | 3.51       | 253.40     | 2.95           |
| 2017/01/26 09:40 | 3.50       | 251.32     | 2.94           |
| 2017/01/26 09:55 | 3.48       | 249.30     | 2.94           |
| 2017/01/26 10:10 | 3.47       | 248.26     | 2.94           |
| 2017/01/26 10:25 | 3.45       | 241.39     | 2.88           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 10:40 | 3.45       | 269.17     | 3.21           |
| 2017/01/26 10:55 | 3.40       | 276.04     | 3.36           |
| 2017/01/26 11:10 | 3.45       | 269.72     | 3.22           |
| 2017/01/26 11:25 | 3.45       | 269.72     | 3.22           |
| 2017/01/26 11:40 | 3.48       | 272.99     | 3.22           |
| 2017/01/26 11:55 | 3.51       | 276.32     | 3.22           |
| 2017/01/26 12:10 | 3.55       | 280.69     | 3.22           |
| 2017/01/26 12:25 | 3.56       | 305.69     | 3.49           |
| 2017/01/26 12:40 | 3.56       | 307.99     | 3.52           |
| 2017/01/26 12:55 | 3.52       | 303.12     | 3.52           |
| 2017/01/26 13:10 | 3.52       | 300.90     | 3.49           |
| 2017/01/26 13:25 | 3.48       | 296.18     | 3.49           |
| 2017/01/26 13:40 | 3.44       | 292.50     | 3.50           |
| 2017/01/26 13:55 | 3.44       | 280.07     | 3.35           |
| 2017/01/26 14:10 | 3.44       | 283.26     | 3.39           |
| 2017/01/26 14:25 | 3.47       | 292.22     | 3.46           |
| 2017/01/26 14:40 | 3.47       | 286.74     | 3.39           |
| 2017/01/26 14:55 | 3.47       | 277.43     | 3.28           |
| 2017/01/26 15:10 | 3.44       | 283.26     | 3.39           |
| 2017/01/26 15:25 | 3.41       | 270.76     | 3.28           |
| 2017/01/26 15:40 | 3.27       | 222.99     | 2.87           |
| 2017/01/26 15:55 | 3.27       | 222.99     | 2.87           |
| 2017/01/26 16:10 | 3.22       | 213.75     | 2.81           |
| 2017/01/26 16:25 | 3.22       | 210.76     | 2.77           |
| 2017/01/26 16:40 | 3.22       | 210.76     | 2.77           |
| 2017/01/26 16:55 | 3.27       | 215.42     | 2.77           |
| 2017/01/26 17:10 | 3.40       | 253.05     | 3.08           |
| 2017/01/26 17:25 | 3.40       | 253.05     | 3.08           |
| 2017/01/26 17:40 | 3.40       | 273.40     | 3.33           |
| 2017/01/26 17:55 | 3.40       | 253.05     | 3.08           |
| 2017/01/26 18:10 | 3.48       | 282.36     | 3.33           |
| 2017/01/26 18:25 | 3.51       | 285.76     | 3.33           |
| 2017/01/26 18:40 | 3.59       | 315.62     | 3.56           |
| 2017/01/26 18:55 | 3.59       | 315.62     | 3.56           |
| 2017/01/26 19:10 | 3.59       | 315.62     | 3.56           |
| 2017/01/26 19:25 | 3.61       | 318.05     | 3.56           |
| 2017/01/26 19:40 | 3.61       | 302.92     | 3.39           |
| 2017/01/26 19:55 | 3.81       | 326.39     | 3.39           |
| 2017/01/26 20:10 | 3.81       | 367.71     | 3.82           |
| 2017/01/26 20:25 | 3.89       | 396.39     | 4.00           |
| 2017/01/26 20:40 | 3.89       | 378.33     | 3.82           |
| 2017/01/26 20:55 | 3.96       | 387.78     | 3.82           |
| 2017/01/26 21:10 | 3.91       | 381.04     | 3.82           |
| 2017/01/26 21:25 | 3.89       | 366.11     | 3.70           |
| 2017/01/26 21:40 | 3.87       | 360.97     | 3.67           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 21:55 | 3.88       | 362.29     | 3.67           |
| 2017/01/26 22:10 | 3.87       | 361.60     | 3.68           |
| 2017/01/26 22:25 | 3.81       | 353.89     | 3.68           |
| 2017/01/26 22:40 | 3.81       | 358.96     | 3.73           |
| 2017/01/26 22:55 | 3.74       | 354.72     | 3.78           |
| 2017/01/26 23:10 | 3.73       | 348.54     | 3.73           |
| 2017/01/26 23:25 | 3.73       | 348.54     | 3.73           |
| 2017/01/26 23:40 | 3.50       | 295.76     | 3.46           |
| 2017/01/26 23:55 | 3.40       | 241.32     | 2.94           |
| 2017/01/27 00:10 | 3.36       | 213.19     | 2.64           |
| 2017/01/27 00:25 | 2.85       | 109.17     | 1.70           |
| 2017/01/27 00:40 | 2.78       | 102.15     | 1.65           |
| 2017/01/27 00:55 | 2.76       | 90.76      | 1.48           |
| 2017/01/27 01:10 | 2.68       | 85.90      | 1.46           |
| 2017/01/27 01:25 | 2.61       | 80.90      | 1.43           |
| 2017/01/27 01:40 | 2.40       | 71.81      | 1.43           |
| 2017/01/27 01:55 | 2.40       | 71.81      | 1.43           |
| 2017/01/27 02:10 | 2.25       | 65.14      | 1.42           |
| 2017/01/27 02:25 | 2.21       | 57.99      | 1.30           |
| 2017/01/27 02:40 | 2.18       | 54.58      | 1.25           |
| 2017/01/27 02:55 | 2.17       | 53.06      | 1.22           |
| 2017/01/27 03:10 | 2.17       | 53.06      | 1.22           |
| 2017/01/27 03:25 | 2.17       | 51.94      | 1.20           |
| 2017/01/27 03:40 | 2.17       | 53.06      | 1.22           |
| 2017/01/27 03:55 | 2.36       | 65.28      | 1.33           |
| 2017/01/27 04:10 | 2.36       | 65.28      | 1.33           |
| 2017/01/27 04:25 | 2.42       | 67.71      | 1.33           |
| 2017/01/27 04:40 | 2.42       | 67.71      | 1.33           |
| 2017/01/27 04:55 | 2.26       | 59.24      | 1.29           |
| 2017/01/27 05:10 | 2.26       | 59.24      | 1.29           |
| 2017/01/27 05:25 | 2.42       | 72.29      | 1.42           |
| 2017/01/27 05:40 | 2.42       | 65.35      | 1.29           |
| 2017/01/27 05:55 | 2.51       | 78.61      | 1.47           |
| 2017/01/27 06:10 | 2.64       | 86.74      | 1.51           |
| 2017/01/27 06:25 | 2.72       | 92.43      | 1.54           |
| 2017/01/27 06:40 | 2.79       | 100.28     | 1.61           |
| 2017/01/27 06:55 | 3.12       | 126.39     | 1.74           |
| 2017/01/27 07:10 | 3.59       | 310.97     | 3.51           |
| 2017/01/27 07:25 | 3.77       | 348.19     | 3.67           |
| 2017/01/27 07:40 | 3.77       | 348.19     | 3.67           |
| 2017/01/27 07:55 | 3.77       | 348.19     | 3.67           |
| 2017/01/27 08:10 | 3.74       | 337.64     | 3.60           |
| 2017/01/27 08:25 | 3.70       | 322.50     | 3.49           |
| 2017/01/27 08:40 | 3.69       | 315.28     | 3.43           |
| 2017/01/27 08:55 | 3.48       | 281.25     | 3.32           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 09:10 | 3.47       | 255.97     | 3.03           |
| 2017/01/27 09:25 | 3.40       | 248.82     | 3.03           |
| 2017/01/27 09:40 | 3.33       | 241.67     | 3.03           |
| 2017/01/27 09:55 | 3.33       | 241.67     | 3.03           |
| 2017/01/27 10:10 | 3.33       | 250.49     | 3.14           |
| 2017/01/27 10:25 | 3.31       | 262.78     | 3.32           |
| 2017/01/27 10:40 | 3.31       | 271.53     | 3.43           |
| 2017/01/27 10:55 | 3.40       | 281.94     | 3.43           |
| 2017/01/27 11:10 | 3.40       | 282.99     | 3.44           |
| 2017/01/27 11:25 | 3.40       | 282.99     | 3.44           |
| 2017/01/27 11:40 | 3.40       | 273.40     | 3.33           |
| 2017/01/27 11:55 | 3.40       | 273.40     | 3.33           |
| 2017/01/27 12:10 | 3.43       | 297.29     | 3.58           |
| 2017/01/27 12:25 | 3.43       | 278.33     | 3.35           |
| 2017/01/27 12:40 | 3.43       | 289.72     | 3.48           |
| 2017/01/27 12:55 | 3.43       | 289.72     | 3.48           |
| 2017/01/27 13:10 | 3.44       | 290.90     | 3.48           |
| 2017/01/27 13:25 | 3.43       | 283.26     | 3.41           |
| 2017/01/27 13:40 | 3.40       | 279.79     | 3.41           |
| 2017/01/27 13:55 | 3.40       | 278.19     | 3.39           |
| 2017/01/27 14:10 | 3.34       | 270.83     | 3.38           |
| 2017/01/27 14:25 | 3.33       | 267.64     | 3.35           |
| 2017/01/27 14:40 | 3.33       | 240.62     | 3.02           |
| 2017/01/27 14:55 | 3.33       | 267.64     | 3.35           |
| 2017/01/27 15:10 | 3.33       | 267.64     | 3.35           |
| 2017/01/27 15:25 | 3.36       | 231.11     | 2.86           |
| 2017/01/27 15:40 | 3.36       | 272.01     | 3.37           |
| 2017/01/27 15:55 | 3.38       | 274.30     | 3.37           |
| 2017/01/27 16:10 | 3.38       | 272.71     | 3.35           |
| 2017/01/27 16:25 | 3.36       | 264.72     | 3.28           |
| 2017/01/27 16:40 | 3.38       | 266.87     | 3.28           |
| 2017/01/27 16:55 | 3.41       | 255.21     | 3.09           |
| 2017/01/27 17:10 | 3.34       | 231.74     | 2.89           |
| 2017/01/27 17:25 | 3.34       | 247.92     | 3.09           |
| 2017/01/27 17:40 | 3.41       | 238.61     | 2.89           |
| 2017/01/27 17:55 | 3.37       | 244.17     | 3.01           |
| 2017/01/27 18:10 | 3.34       | 231.74     | 2.89           |
| 2017/01/27 18:25 | 3.37       | 244.17     | 3.01           |
| 2017/01/27 18:40 | 3.41       | 248.19     | 3.01           |
| 2017/01/27 18:55 | 3.48       | 271.87     | 3.20           |
| 2017/01/27 19:10 | 3.62       | 290.14     | 3.24           |
| 2017/01/27 19:25 | 3.62       | 298.26     | 3.33           |
| 2017/01/27 19:40 | 3.62       | 332.64     | 3.71           |
| 2017/01/27 19:55 | 3.71       | 344.17     | 3.71           |
| 2017/01/27 20:10 | 3.71       | 346.60     | 3.74           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 20:25 | 3.70       | 342.92     | 3.71           |
| 2017/01/27 20:40 | 3.55       | 320.90     | 3.68           |
| 2017/01/27 20:55 | 3.63       | 317.57     | 3.53           |
| 2017/01/27 21:10 | 3.52       | 304.30     | 3.53           |
| 2017/01/27 21:25 | 3.52       | 304.30     | 3.53           |
| 2017/01/27 21:40 | 3.62       | 315.21     | 3.52           |
| 2017/01/27 21:55 | 3.63       | 316.39     | 3.52           |
| 2017/01/27 22:10 | 3.62       | 315.21     | 3.52           |
| 2017/01/27 22:25 | 3.62       | 315.21     | 3.52           |
| 2017/01/27 22:40 | 3.54       | 305.55     | 3.52           |
| 2017/01/27 22:55 | 3.52       | 300.90     | 3.49           |
| 2017/01/27 23:10 | 3.50       | 277.43     | 3.24           |
| 2017/01/27 23:25 | 3.37       | 252.08     | 3.11           |
| 2017/01/27 23:40 | 3.37       | 232.57     | 2.87           |
| 2017/01/27 23:55 | 3.33       | 228.75     | 2.87           |
| 2017/01/28 00:10 | 3.33       | 219.37     | 2.75           |
| 2017/01/28 00:25 | 3.33       | 188.26     | 2.36           |
| 2017/01/28 00:40 | 3.11       | 141.87     | 1.96           |
| 2017/01/28 00:55 | 3.01       | 118.82     | 1.72           |
| 2017/01/28 01:10 | 3.01       | 118.82     | 1.72           |
| 2017/01/28 01:25 | 2.88       | 110.76     | 1.70           |
| 2017/01/28 01:40 | 2.83       | 106.46     | 1.68           |
| 2017/01/28 01:55 | 2.83       | 99.44      | 1.57           |
| 2017/01/28 02:10 | 2.44       | 74.17      | 1.44           |
| 2017/01/28 02:25 | 2.43       | 73.06      | 1.43           |
| 2017/01/28 02:40 | 2.39       | 65.21      | 1.31           |
| 2017/01/28 02:55 | 2.39       | 65.49      | 1.31           |
| 2017/01/28 03:10 | 2.29       | 60.97      | 1.30           |
| 2017/01/28 03:25 | 2.29       | 61.60      | 1.31           |
| 2017/01/28 03:40 | 2.29       | 60.97      | 1.30           |
| 2017/01/28 03:55 | 2.29       | 60.97      | 1.30           |
| 2017/01/28 04:10 | 2.25       | 59.51      | 1.30           |
| 2017/01/28 04:25 | 2.24       | 58.54      | 1.29           |
| 2017/01/28 04:40 | 2.17       | 54.79      | 1.26           |
| 2017/01/28 04:55 | 2.07       | 47.22      | 1.16           |
| 2017/01/28 05:10 | 2.07       | 47.22      | 1.16           |
| 2017/01/28 05:25 | 2.06       | 44.79      | 1.11           |
| 2017/01/28 05:40 | 2.00       | 41.18      | 1.07           |
| 2017/01/28 05:55 | 2.07       | 47.22      | 1.16           |
| 2017/01/28 06:10 | 2.07       | 49.10      | 1.21           |
| 2017/01/28 06:25 | 2.12       | 50.76      | 1.21           |
| 2017/01/28 06:40 | 2.39       | 70.35      | 1.41           |
| 2017/01/28 06:55 | 2.46       | 73.33      | 1.41           |
| 2017/01/28 07:10 | 2.47       | 75.14      | 1.44           |
| 2017/01/28 07:25 | 2.47       | 75.49      | 1.44           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 07:40 | 2.50       | 77.50      | 1.46           |
| 2017/01/28 07:55 | 2.83       | 100.21     | 1.58           |
| 2017/01/28 08:10 | 3.01       | 120.62     | 1.74           |
| 2017/01/28 08:25 | 3.05       | 126.53     | 1.79           |
| 2017/01/28 08:40 | 3.36       | 151.81     | 1.88           |
| 2017/01/28 08:55 | 3.48       | 293.40     | 3.46           |
| 2017/01/28 09:10 | 3.65       | 313.54     | 3.46           |
| 2017/01/28 09:25 | 3.74       | 324.24     | 3.46           |
| 2017/01/28 09:40 | 3.74       | 324.24     | 3.46           |
| 2017/01/28 09:55 | 3.82       | 335.76     | 3.48           |
| 2017/01/28 10:10 | 3.84       | 338.19     | 3.48           |
| 2017/01/28 10:25 | 3.84       | 362.85     | 3.73           |
| 2017/01/28 10:40 | 3.85       | 369.86     | 3.79           |
| 2017/01/28 10:55 | 3.85       | 376.18     | 3.85           |
| 2017/01/28 11:10 | 3.88       | 388.54     | 3.94           |
| 2017/01/28 11:25 | 3.88       | 388.54     | 3.94           |
| 2017/01/28 11:40 | 3.85       | 384.44     | 3.94           |
| 2017/01/28 11:55 | 3.81       | 380.83     | 3.96           |
| 2017/01/28 12:10 | 3.81       | 357.71     | 3.72           |
| 2017/01/28 12:25 | 3.80       | 331.46     | 3.46           |
| 2017/01/28 12:40 | 3.80       | 331.46     | 3.46           |
| 2017/01/28 12:55 | 3.80       | 366.94     | 3.83           |
| 2017/01/28 13:10 | 3.74       | 359.03     | 3.83           |
| 2017/01/28 13:25 | 3.74       | 359.03     | 3.83           |
| 2017/01/28 13:40 | 3.73       | 357.64     | 3.83           |
| 2017/01/28 13:55 | 3.73       | 353.40     | 3.78           |
| 2017/01/28 14:10 | 3.73       | 353.40     | 3.78           |
| 2017/01/28 14:25 | 3.74       | 331.60     | 3.54           |
| 2017/01/28 14:40 | 3.71       | 315.21     | 3.40           |
| 2017/01/28 14:55 | 3.71       | 327.92     | 3.54           |
| 2017/01/28 15:10 | 3.71       | 345.97     | 3.73           |
| 2017/01/28 15:25 | 3.71       | 345.97     | 3.73           |
| 2017/01/28 15:40 | 3.71       | 345.97     | 3.73           |
| 2017/01/28 15:55 | 3.71       | 345.97     | 3.73           |
| 2017/01/28 16:10 | 3.70       | 333.89     | 3.61           |
| 2017/01/28 16:25 | 3.65       | 319.37     | 3.52           |
| 2017/01/28 16:40 | 3.52       | 303.75     | 3.52           |
| 2017/01/28 16:55 | 3.52       | 284.10     | 3.30           |
| 2017/01/28 17:10 | 3.52       | 284.10     | 3.30           |
| 2017/01/28 17:25 | 3.52       | 282.99     | 3.28           |
| 2017/01/28 17:40 | 3.52       | 288.61     | 3.35           |
| 2017/01/28 17:55 | 3.61       | 283.19     | 3.17           |
| 2017/01/28 18:10 | 3.61       | 283.19     | 3.17           |
| 2017/01/28 18:25 | 3.61       | 283.19     | 3.17           |
| 2017/01/28 18:40 | 3.61       | 289.03     | 3.24           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 18:55 | 3.61       | 289.03     | 3.24           |
| 2017/01/28 19:10 | 3.61       | 292.50     | 3.28           |
| 2017/01/28 19:25 | 3.61       | 296.60     | 3.32           |
| 2017/01/28 19:40 | 3.61       | 296.60     | 3.32           |
| 2017/01/28 19:55 | 3.65       | 297.01     | 3.28           |
| 2017/01/28 20:10 | 3.61       | 292.50     | 3.28           |
| 2017/01/28 20:25 | 3.59       | 294.30     | 3.32           |
| 2017/01/28 20:40 | 3.56       | 305.14     | 3.48           |
| 2017/01/28 20:55 | 3.56       | 306.80     | 3.50           |
| 2017/01/28 21:10 | 3.56       | 306.80     | 3.50           |
| 2017/01/28 21:25 | 3.43       | 289.72     | 3.48           |
| 2017/01/28 21:40 | 3.33       | 272.29     | 3.41           |
| 2017/01/28 21:55 | 3.33       | 272.29     | 3.41           |
| 2017/01/28 22:10 | 3.33       | 272.29     | 3.41           |
| 2017/01/28 22:25 | 3.48       | 272.43     | 3.21           |
| 2017/01/28 22:40 | 3.48       | 291.18     | 3.43           |
| 2017/01/28 22:55 | 3.48       | 291.18     | 3.43           |
| 2017/01/28 23:10 | 3.45       | 276.25     | 3.30           |
| 2017/01/28 23:25 | 3.31       | 254.10     | 3.21           |
| 2017/01/28 23:40 | 3.31       | 225.76     | 2.85           |
| 2017/01/28 23:55 | 3.27       | 177.50     | 2.28           |
| 2017/01/29 00:10 | 3.27       | 152.22     | 1.96           |
| 2017/01/29 00:25 | 3.11       | 139.93     | 1.93           |
| 2017/01/29 00:40 | 3.08       | 126.46     | 1.77           |
| 2017/01/29 00:55 | 2.98       | 119.79     | 1.75           |
| 2017/01/29 01:10 | 2.87       | 108.96     | 1.68           |
| 2017/01/29 01:25 | 2.85       | 106.25     | 1.66           |
| 2017/01/29 01:40 | 2.79       | 103.06     | 1.66           |
| 2017/01/29 01:55 | 2.78       | 101.74     | 1.64           |
| 2017/01/29 02:10 | 2.74       | 99.72      | 1.64           |
| 2017/01/29 02:25 | 2.57       | 82.71      | 1.50           |
| 2017/01/29 02:40 | 2.35       | 70.62      | 1.45           |
| 2017/01/29 02:55 | 2.35       | 70.62      | 1.45           |
| 2017/01/29 03:10 | 2.35       | 64.24      | 1.32           |
| 2017/01/29 03:25 | 2.32       | 64.93      | 1.36           |
| 2017/01/29 03:40 | 2.32       | 64.93      | 1.36           |
| 2017/01/29 03:55 | 2.32       | 60.00      | 1.25           |
| 2017/01/29 04:10 | 2.28       | 58.47      | 1.25           |
| 2017/01/29 04:25 | 2.21       | 55.97      | 1.25           |
| 2017/01/29 04:40 | 2.21       | 55.62      | 1.25           |
| 2017/01/29 04:55 | 2.19       | 54.10      | 1.23           |
| 2017/01/29 05:10 | 2.17       | 53.33      | 1.23           |
| 2017/01/29 05:25 | 2.14       | 52.29      | 1.23           |
| 2017/01/29 05:40 | 2.12       | 50.21      | 1.20           |
| 2017/01/29 05:55 | 2.12       | 50.21      | 1.20           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 06:10 | 2.12       | 52.99      | 1.26           |
| 2017/01/29 06:25 | 2.15       | 54.03      | 1.26           |
| 2017/01/29 06:40 | 2.15       | 55.42      | 1.29           |
| 2017/01/29 06:55 | 2.21       | 58.54      | 1.31           |
| 2017/01/29 07:10 | 2.35       | 63.96      | 1.31           |
| 2017/01/29 07:25 | 2.37       | 65.07      | 1.32           |
| 2017/01/29 07:40 | 2.51       | 73.40      | 1.37           |
| 2017/01/29 07:55 | 2.58       | 86.46      | 1.55           |
| 2017/01/29 08:10 | 2.67       | 91.94      | 1.57           |
| 2017/01/29 08:25 | 2.94       | 117.99     | 1.76           |
| 2017/01/29 08:40 | 3.05       | 128.82     | 1.83           |
| 2017/01/29 08:55 | 3.09       | 132.15     | 1.84           |
| 2017/01/29 09:10 | 3.11       | 136.18     | 1.88           |
| 2017/01/29 09:25 | 3.38       | 171.04     | 2.10           |
| 2017/01/29 09:40 | 3.59       | 247.08     | 2.79           |
| 2017/01/29 09:55 | 3.62       | 272.64     | 3.04           |
| 2017/01/29 10:10 | 3.66       | 278.05     | 3.06           |
| 2017/01/29 10:25 | 3.81       | 332.64     | 3.46           |
| 2017/01/29 10:40 | 3.91       | 368.75     | 3.70           |
| 2017/01/29 10:55 | 4.01       | 381.73     | 3.70           |
| 2017/01/29 11:10 | 4.06       | 388.26     | 3.70           |
| 2017/01/29 11:25 | 4.06       | 388.26     | 3.70           |
| 2017/01/29 11:40 | 4.01       | 374.37     | 3.63           |
| 2017/01/29 11:55 | 3.98       | 351.94     | 3.44           |
| 2017/01/29 12:10 | 3.98       | 351.94     | 3.44           |
| 2017/01/29 12:25 | 3.94       | 347.08     | 3.44           |
| 2017/01/29 12:40 | 3.95       | 343.68     | 3.40           |
| 2017/01/29 12:55 | 3.95       | 348.26     | 3.44           |
| 2017/01/29 13:10 | 3.94       | 342.50     | 3.40           |
| 2017/01/29 13:25 | 3.82       | 328.19     | 3.40           |
| 2017/01/29 13:40 | 3.82       | 339.51     | 3.52           |
| 2017/01/29 13:55 | 3.80       | 353.26     | 3.69           |
| 2017/01/29 14:10 | 3.80       | 356.39     | 3.72           |
| 2017/01/29 14:25 | 3.80       | 358.89     | 3.74           |
| 2017/01/29 14:40 | 3.80       | 356.39     | 3.72           |
| 2017/01/29 14:55 | 3.80       | 358.89     | 3.74           |
| 2017/01/29 15:10 | 3.80       | 358.89     | 3.74           |
| 2017/01/29 15:25 | 3.78       | 350.69     | 3.69           |
| 2017/01/29 15:40 | 3.62       | 330.35     | 3.69           |
| 2017/01/29 15:55 | 3.61       | 329.10     | 3.69           |
| 2017/01/29 16:10 | 3.51       | 299.72     | 3.49           |
| 2017/01/29 16:25 | 3.50       | 280.21     | 3.28           |
| 2017/01/29 16:40 | 3.50       | 268.54     | 3.14           |
| 2017/01/29 16:55 | 3.50       | 280.21     | 3.28           |
| 2017/01/29 17:10 | 3.48       | 266.39     | 3.14           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 17:25 | 3.44       | 262.15     | 3.14           |
| 2017/01/29 17:40 | 3.44       | 283.26     | 3.39           |
| 2017/01/29 17:55 | 3.44       | 287.64     | 3.44           |
| 2017/01/29 18:10 | 3.47       | 293.89     | 3.48           |
| 2017/01/29 18:25 | 3.52       | 302.01     | 3.50           |
| 2017/01/29 18:40 | 3.52       | 299.79     | 3.48           |
| 2017/01/29 18:55 | 3.52       | 299.79     | 3.48           |
| 2017/01/29 19:10 | 3.52       | 299.79     | 3.48           |
| 2017/01/29 19:25 | 3.59       | 310.42     | 3.50           |
| 2017/01/29 19:40 | 3.61       | 308.75     | 3.46           |
| 2017/01/29 19:55 | 3.66       | 314.72     | 3.46           |
| 2017/01/29 20:10 | 3.71       | 322.50     | 3.48           |
| 2017/01/29 20:25 | 3.73       | 301.80     | 3.23           |
| 2017/01/29 20:40 | 3.76       | 305.14     | 3.23           |
| 2017/01/29 20:55 | 3.81       | 323.89     | 3.37           |
| 2017/01/29 21:10 | 3.81       | 334.51     | 3.48           |
| 2017/01/29 21:25 | 3.81       | 355.14     | 3.69           |
| 2017/01/29 21:40 | 3.81       | 355.14     | 3.69           |
| 2017/01/29 21:55 | 3.81       | 355.14     | 3.69           |
| 2017/01/29 22:10 | 3.82       | 359.58     | 3.72           |
| 2017/01/29 22:25 | 3.82       | 356.46     | 3.69           |
| 2017/01/29 22:40 | 3.82       | 316.94     | 3.28           |
| 2017/01/29 22:55 | 3.77       | 305.07     | 3.22           |
| 2017/01/29 23:10 | 3.48       | 272.43     | 3.21           |
| 2017/01/29 23:25 | 3.45       | 258.26     | 3.08           |
| 2017/01/29 23:40 | 3.40       | 253.05     | 3.08           |
| 2017/01/29 23:55 | 3.30       | 205.35     | 2.61           |
| 2017/01/30 00:10 | 2.97       | 117.50     | 1.73           |
| 2017/01/30 00:25 | 2.85       | 105.83     | 1.65           |
| 2017/01/30 00:40 | 2.72       | 96.32      | 1.61           |
| 2017/01/30 00:55 | 2.46       | 77.08      | 1.48           |
| 2017/01/30 01:10 | 2.40       | 67.22      | 1.34           |
| 2017/01/30 01:25 | 2.37       | 64.10      | 1.30           |
| 2017/01/30 01:40 | 2.28       | 60.62      | 1.30           |
| 2017/01/30 01:55 | 2.18       | 58.54      | 1.34           |
| 2017/01/30 02:10 | 2.18       | 58.54      | 1.34           |
| 2017/01/30 02:25 | 2.14       | 47.01      | 1.11           |
| 2017/01/30 02:40 | 2.06       | 51.87      | 1.29           |
| 2017/01/30 02:55 | 1.96       | 40.69      | 1.09           |
| 2017/01/30 03:10 | 1.96       | 40.69      | 1.09           |
| 2017/01/30 03:25 | 1.96       | 40.69      | 1.09           |
| 2017/01/30 03:40 | 2.11       | 51.53      | 1.24           |
| 2017/01/30 03:55 | 2.14       | 52.57      | 1.24           |
| 2017/01/30 04:10 | 2.18       | 54.86      | 1.25           |
| 2017/01/30 04:25 | 2.18       | 54.86      | 1.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 04:40 | 2.21       | 62.92      | 1.41           |
| 2017/01/30 04:55 | 2.21       | 62.92      | 1.41           |
| 2017/01/30 05:10 | 2.28       | 65.76      | 1.41           |
| 2017/01/30 05:25 | 2.37       | 66.67      | 1.35           |
| 2017/01/30 05:40 | 2.39       | 67.43      | 1.35           |
| 2017/01/30 05:55 | 2.46       | 70.28      | 1.35           |
| 2017/01/30 06:10 | 2.68       | 95.07      | 1.62           |
| 2017/01/30 06:25 | 2.83       | 102.71     | 1.62           |
| 2017/01/30 06:40 | 2.88       | 109.10     | 1.68           |
| 2017/01/30 06:55 | 3.12       | 122.64     | 1.68           |
| 2017/01/30 07:10 | 3.25       | 148.89     | 1.93           |
| 2017/01/30 07:25 | 3.51       | 195.90     | 2.28           |
| 2017/01/30 07:40 | 3.69       | 320.69     | 3.48           |
| 2017/01/30 07:55 | 3.69       | 320.69     | 3.48           |
| 2017/01/30 08:10 | 3.69       | 320.69     | 3.48           |
| 2017/01/30 08:25 | 3.62       | 301.80     | 3.37           |
| 2017/01/30 08:40 | 3.54       | 285.21     | 3.28           |
| 2017/01/30 08:55 | 3.54       | 274.51     | 3.16           |
| 2017/01/30 09:10 | 3.47       | 266.94     | 3.16           |
| 2017/01/30 09:25 | 3.54       | 285.21     | 3.28           |
| 2017/01/30 09:40 | 3.47       | 269.72     | 3.19           |
| 2017/01/30 09:55 | 3.45       | 275.21     | 3.28           |
| 2017/01/30 10:10 | 3.47       | 277.43     | 3.28           |
| 2017/01/30 10:25 | 3.51       | 282.99     | 3.30           |
| 2017/01/30 10:40 | 3.51       | 282.99     | 3.30           |
| 2017/01/30 10:55 | 3.55       | 287.50     | 3.30           |
| 2017/01/30 11:10 | 3.61       | 275.07     | 3.08           |
| 2017/01/30 11:25 | 3.55       | 268.75     | 3.08           |
| 2017/01/30 11:40 | 3.58       | 271.94     | 3.08           |
| 2017/01/30 11:55 | 3.55       | 262.50     | 3.01           |
| 2017/01/30 12:10 | 3.55       | 255.69     | 2.93           |
| 2017/01/30 12:25 | 3.54       | 254.72     | 2.93           |
| 2017/01/30 12:40 | 3.51       | 265.69     | 3.09           |
| 2017/01/30 12:55 | 3.51       | 265.69     | 3.09           |
| 2017/01/30 13:10 | 3.54       | 302.71     | 3.48           |
| 2017/01/30 13:25 | 3.55       | 305.62     | 3.50           |
| 2017/01/30 13:40 | 3.56       | 305.14     | 3.48           |
| 2017/01/30 13:55 | 3.56       | 306.80     | 3.50           |
| 2017/01/30 14:10 | 3.56       | 305.14     | 3.48           |
| 2017/01/30 14:25 | 3.56       | 302.85     | 3.46           |
| 2017/01/30 14:40 | 3.56       | 302.85     | 3.46           |
| 2017/01/30 14:55 | 3.58       | 305.21     | 3.46           |
| 2017/01/30 15:10 | 3.58       | 305.21     | 3.46           |
| 2017/01/30 15:25 | 3.65       | 315.28     | 3.48           |
| 2017/01/30 15:40 | 3.65       | 324.10     | 3.58           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 15:55 | 3.52       | 304.86     | 3.54           |
| 2017/01/30 16:10 | 3.52       | 308.19     | 3.58           |
| 2017/01/30 16:25 | 3.63       | 338.61     | 3.76           |
| 2017/01/30 16:40 | 3.63       | 338.61     | 3.76           |
| 2017/01/30 16:55 | 3.66       | 342.50     | 3.76           |
| 2017/01/30 17:10 | 3.66       | 342.50     | 3.76           |
| 2017/01/30 17:25 | 3.66       | 327.71     | 3.60           |
| 2017/01/30 17:40 | 3.56       | 315.35     | 3.60           |
| 2017/01/30 17:55 | 3.56       | 310.83     | 3.55           |
| 2017/01/30 18:10 | 3.56       | 310.83     | 3.55           |
| 2017/01/30 18:25 | 3.69       | 326.67     | 3.55           |
| 2017/01/30 18:40 | 3.73       | 337.01     | 3.61           |
| 2017/01/30 18:55 | 3.73       | 344.30     | 3.69           |
| 2017/01/30 19:10 | 3.73       | 349.17     | 3.74           |
| 2017/01/30 19:25 | 3.70       | 345.28     | 3.74           |
| 2017/01/30 19:40 | 3.66       | 335.42     | 3.69           |
| 2017/01/30 19:55 | 3.52       | 277.36     | 3.22           |
| 2017/01/30 20:10 | 3.52       | 277.36     | 3.22           |
| 2017/01/30 20:25 | 3.52       | 277.36     | 3.22           |
| 2017/01/30 20:40 | 3.55       | 313.54     | 3.59           |
| 2017/01/30 20:55 | 3.59       | 325.42     | 3.67           |
| 2017/01/30 21:10 | 3.65       | 332.99     | 3.67           |
| 2017/01/30 21:25 | 3.69       | 337.99     | 3.67           |
| 2017/01/30 21:40 | 3.73       | 332.78     | 3.56           |
| 2017/01/30 21:55 | 3.73       | 332.78     | 3.56           |
| 2017/01/30 22:10 | 3.76       | 336.46     | 3.56           |
| 2017/01/30 22:25 | 3.87       | 360.97     | 3.67           |
| 2017/01/30 22:40 | 3.88       | 362.29     | 3.67           |
| 2017/01/30 22:55 | 3.88       | 367.43     | 3.72           |
| 2017/01/30 23:10 | 3.87       | 366.11     | 3.72           |
| 2017/01/30 23:25 | 3.84       | 355.21     | 3.65           |
| 2017/01/30 23:40 | 3.48       | 291.74     | 3.44           |
| 2017/01/30 23:55 | 3.41       | 209.65     | 2.54           |
| 2017/01/31 00:10 | 3.26       | 143.47     | 1.85           |
| 2017/01/31 00:25 | 3.02       | 123.47     | 1.77           |
| 2017/01/31 00:40 | 3.50       | 266.32     | 3.11           |
| 2017/01/31 00:55 | 3.44       | 259.93     | 3.11           |
| 2017/01/31 01:10 | 3.36       | 251.04     | 3.11           |
| 2017/01/31 01:25 | 3.29       | 243.75     | 3.11           |
| 2017/01/31 01:40 | 3.08       | 121.32     | 1.70           |
| 2017/01/31 01:55 | 2.79       | 96.60      | 1.55           |
| 2017/01/31 02:10 | 2.72       | 90.49      | 1.51           |
| 2017/01/31 02:25 | 2.64       | 85.62      | 1.49           |
| 2017/01/31 02:40 | 2.46       | 71.32      | 1.37           |
| 2017/01/31 02:55 | 2.42       | 64.37      | 1.27           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 03:10 | 2.19       | 55.49      | 1.26           |
| 2017/01/31 03:25 | 2.17       | 53.61      | 1.24           |
| 2017/01/31 03:40 | 2.17       | 50.28      | 1.16           |
| 2017/01/31 03:55 | 2.17       | 53.33      | 1.23           |
| 2017/01/31 04:10 | 2.19       | 54.10      | 1.23           |
| 2017/01/31 04:25 | 2.19       | 54.10      | 1.23           |
| 2017/01/31 04:40 | 2.19       | 54.10      | 1.23           |
| 2017/01/31 04:55 | 2.26       | 56.87      | 1.24           |
| 2017/01/31 05:10 | 2.31       | 58.68      | 1.24           |
| 2017/01/31 05:25 | 2.33       | 59.44      | 1.24           |
| 2017/01/31 05:40 | 2.39       | 65.21      | 1.31           |
| 2017/01/31 05:55 | 2.40       | 66.25      | 1.32           |
| 2017/01/31 06:10 | 2.47       | 72.78      | 1.39           |
| 2017/01/31 06:25 | 2.61       | 81.25      | 1.44           |
| 2017/01/31 06:40 | 2.65       | 89.03      | 1.54           |
| 2017/01/31 06:55 | 2.67       | 92.29      | 1.58           |
| 2017/01/31 07:10 | 2.81       | 99.24      | 1.58           |
| 2017/01/31 07:25 | 2.90       | 105.49     | 1.61           |
| 2017/01/31 07:40 | 2.93       | 115.69     | 1.74           |
| 2017/01/31 07:55 | 3.19       | 137.22     | 1.83           |
| 2017/01/31 08:10 | 3.71       | 307.43     | 3.32           |
| 2017/01/31 08:25 | 3.84       | 322.36     | 3.32           |
| 2017/01/31 08:40 | 3.88       | 353.26     | 3.58           |
| 2017/01/31 08:55 | 3.88       | 359.10     | 3.64           |
| 2017/01/31 09:10 | 3.88       | 359.10     | 3.64           |
| 2017/01/31 09:25 | 3.88       | 354.58     | 3.59           |
| 2017/01/31 09:40 | 3.62       | 322.15     | 3.59           |
| 2017/01/31 09:55 | 3.62       | 322.15     | 3.59           |
| 2017/01/31 10:10 | 3.61       | 312.85     | 3.50           |
| 2017/01/31 10:25 | 3.58       | 305.76     | 3.46           |
| 2017/01/31 10:40 | 3.54       | 301.04     | 3.46           |
| 2017/01/31 10:55 | 3.47       | 291.18     | 3.45           |
| 2017/01/31 11:10 | 3.47       | 279.44     | 3.31           |
| 2017/01/31 11:25 | 3.47       | 293.68     | 3.47           |
| 2017/01/31 11:40 | 3.46       | 278.33     | 3.31           |
| 2017/01/31 11:55 | 3.46       | 249.44     | 2.96           |
| 2017/01/31 12:10 | 3.41       | 272.78     | 3.31           |
| 2017/01/31 12:25 | 3.41       | 285.42     | 3.46           |
| 2017/01/31 12:40 | 3.39       | 283.05     | 3.46           |
| 2017/01/31 12:55 | 3.41       | 285.42     | 3.46           |
| 2017/01/31 13:10 | 3.50       | 295.97     | 3.46           |
| 2017/01/31 13:25 | 3.51       | 294.65     | 3.43           |
| 2017/01/31 13:40 | 3.50       | 289.72     | 3.39           |
| 2017/01/31 13:55 | 3.50       | 289.72     | 3.39           |
| 2017/01/31 14:10 | 3.51       | 290.83     | 3.39           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 14:25 | 3.54       | 298.12     | 3.43           |
| 2017/01/31 14:40 | 3.57       | 310.62     | 3.53           |
| 2017/01/31 14:55 | 3.57       | 310.62     | 3.53           |
| 2017/01/31 15:10 | 3.59       | 313.05     | 3.53           |
| 2017/01/31 15:25 | 3.59       | 314.30     | 3.55           |
| 2017/01/31 15:40 | 3.59       | 314.30     | 3.55           |
| 2017/01/31 15:55 | 3.46       | 308.47     | 3.66           |
| 2017/01/31 16:10 | 3.43       | 304.72     | 3.66           |
| 2017/01/31 16:25 | 3.43       | 286.53     | 3.45           |
| 2017/01/31 16:40 | 3.43       | 276.80     | 3.33           |
| 2017/01/31 16:55 | 3.46       | 290.00     | 3.45           |
| 2017/01/31 17:10 | 3.46       | 290.00     | 3.45           |
| 2017/01/31 17:25 | 3.46       | 306.60     | 3.64           |
| 2017/01/31 17:40 | 3.46       | 307.22     | 3.65           |
| 2017/01/31 17:55 | 3.41       | 317.92     | 3.85           |
| 2017/01/31 18:10 | 3.41       | 317.92     | 3.85           |
| 2017/01/31 18:25 | 3.50       | 329.65     | 3.85           |
| 2017/01/31 18:40 | 3.52       | 332.92     | 3.86           |
| 2017/01/31 18:55 | 3.58       | 340.83     | 3.86           |
| 2017/01/31 19:10 | 3.61       | 344.79     | 3.86           |
| 2017/01/31 19:25 | 3.62       | 346.11     | 3.86           |
| 2017/01/31 19:40 | 3.68       | 338.05     | 3.69           |
| 2017/01/31 19:55 | 3.69       | 323.82     | 3.52           |
| 2017/01/31 20:10 | 3.76       | 332.36     | 3.52           |
| 2017/01/31 20:25 | 3.91       | 350.76     | 3.52           |
| 2017/01/31 20:40 | 4.11       | 416.11     | 3.90           |
| 2017/01/31 20:55 | 4.11       | 422.36     | 3.96           |
| 2017/01/31 21:10 | 3.96       | 401.39     | 3.96           |
| 2017/01/31 21:25 | 3.96       | 395.48     | 3.90           |
| 2017/01/31 21:40 | 4.08       | 419.72     | 3.97           |
| 2017/01/31 21:55 | 3.96       | 350.28     | 3.45           |
| 2017/01/31 22:10 | 3.96       | 350.28     | 3.45           |
| 2017/01/31 22:25 | 3.93       | 403.82     | 4.02           |
| 2017/01/31 22:40 | 3.82       | 388.33     | 4.02           |
| 2017/01/31 22:55 | 3.73       | 360.76     | 3.86           |
| 2017/01/31 23:10 | 3.65       | 350.14     | 3.86           |
| 2017/01/31 23:25 | 3.50       | 312.78     | 3.66           |
| 2017/01/31 23:40 | 3.46       | 275.90     | 3.28           |
| 2017/01/31 23:55 | 3.40       | 269.24     | 3.28           |
| 2017/02/01 00:10 | 3.32       | 259.86     | 3.27           |
| 2017/02/01 00:25 | 3.25       | 252.22     | 3.27           |
| 2017/02/01 00:40 | 3.04       | 126.11     | 1.80           |
| 2017/02/01 00:55 | 2.76       | 100.14     | 1.64           |
| 2017/02/01 01:10 | 2.69       | 93.54      | 1.58           |
| 2017/02/01 01:25 | 2.61       | 88.40      | 1.56           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 01:40 | 2.43       | 73.82      | 1.45           |
| 2017/02/01 01:55 | 2.39       | 67.36      | 1.35           |
| 2017/02/01 02:10 | 2.16       | 57.99      | 1.34           |
| 2017/02/01 02:25 | 2.14       | 55.97      | 1.31           |
| 2017/02/01 02:40 | 2.14       | 52.22      | 1.23           |
| 2017/02/01 02:55 | 2.14       | 55.62      | 1.31           |
| 2017/02/01 03:10 | 2.16       | 56.39      | 1.31           |
| 2017/02/01 03:25 | 2.16       | 56.39      | 1.31           |
| 2017/02/01 03:40 | 2.16       | 56.39      | 1.31           |
| 2017/02/01 03:55 | 2.23       | 59.37      | 1.31           |
| 2017/02/01 04:10 | 2.28       | 61.25      | 1.31           |
| 2017/02/01 04:25 | 2.30       | 62.08      | 1.31           |
| 2017/02/01 04:40 | 2.36       | 68.33      | 1.39           |
| 2017/02/01 04:55 | 2.37       | 69.44      | 1.41           |
| 2017/02/01 05:10 | 2.44       | 75.00      | 1.46           |
| 2017/02/01 05:25 | 2.58       | 83.68      | 1.50           |
| 2017/02/01 05:40 | 2.62       | 92.15      | 1.62           |
| 2017/02/01 05:55 | 2.64       | 95.69      | 1.66           |
| 2017/02/01 06:10 | 2.78       | 102.99     | 1.66           |
| 2017/02/01 06:25 | 2.86       | 109.10     | 1.69           |
| 2017/02/01 06:40 | 2.89       | 120.28     | 1.84           |
| 2017/02/01 06:55 | 3.15       | 143.33     | 1.94           |
| 2017/02/01 07:10 | 3.66       | 318.89     | 3.50           |
| 2017/02/01 07:25 | 3.79       | 334.65     | 3.50           |
| 2017/02/01 07:40 | 3.83       | 366.39     | 3.78           |
| 2017/02/01 07:55 | 3.83       | 371.39     | 3.83           |
| 2017/02/01 08:10 | 3.83       | 371.39     | 3.83           |
| 2017/02/01 08:25 | 3.83       | 367.08     | 3.79           |
| 2017/02/01 08:40 | 3.58       | 334.37     | 3.79           |
| 2017/02/01 08:55 | 3.58       | 334.37     | 3.79           |
| 2017/02/01 09:10 | 3.57       | 325.42     | 3.70           |
| 2017/02/01 09:25 | 3.54       | 318.40     | 3.66           |
| 2017/02/01 09:40 | 3.50       | 313.40     | 3.66           |
| 2017/02/01 09:55 | 3.48       | 307.85     | 3.63           |
| 2017/02/01 10:10 | 3.48       | 273.12     | 3.22           |
| 2017/02/01 10:25 | 3.48       | 273.12     | 3.22           |
| 2017/02/01 10:40 | 3.48       | 273.12     | 3.22           |
| 2017/02/01 10:55 | 3.51       | 314.03     | 3.66           |
| 2017/02/01 11:10 | 3.51       | 314.03     | 3.66           |
| 2017/02/01 11:25 | 3.51       | 314.03     | 3.66           |
| 2017/02/01 11:40 | 3.46       | 296.80     | 3.53           |
| 2017/02/01 11:55 | 3.44       | 293.19     | 3.51           |
| 2017/02/01 12:10 | 3.40       | 284.86     | 3.47           |
| 2017/02/01 12:25 | 3.40       | 284.86     | 3.47           |
| 2017/02/01 12:40 | 3.39       | 275.90     | 3.37           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 12:55 | 3.39       | 275.90     | 3.37           |
| 2017/02/01 13:10 | 3.39       | 287.85     | 3.52           |
| 2017/02/01 13:25 | 3.41       | 299.24     | 3.63           |
| 2017/02/01 13:40 | 3.46       | 310.28     | 3.69           |
| 2017/02/01 13:55 | 3.48       | 312.78     | 3.69           |
| 2017/02/01 14:10 | 3.52       | 317.85     | 3.69           |
| 2017/02/01 14:25 | 3.58       | 347.92     | 3.94           |
| 2017/02/01 14:40 | 3.58       | 347.92     | 3.94           |
| 2017/02/01 14:55 | 3.58       | 347.92     | 3.94           |
| 2017/02/01 15:10 | 3.57       | 346.60     | 3.94           |
| 2017/02/01 15:25 | 3.57       | 340.76     | 3.88           |
| 2017/02/01 15:40 | 3.47       | 318.33     | 3.77           |
| 2017/02/01 15:55 | 3.43       | 302.29     | 3.64           |
| 2017/02/01 16:10 | 3.41       | 299.86     | 3.64           |
| 2017/02/01 16:25 | 3.43       | 302.29     | 3.64           |
| 2017/02/01 16:40 | 3.47       | 307.22     | 3.64           |
| 2017/02/01 16:55 | 3.47       | 307.22     | 3.64           |
| 2017/02/01 17:10 | 3.48       | 311.53     | 3.67           |
| 2017/02/01 17:25 | 3.48       | 311.53     | 3.67           |
| 2017/02/01 17:40 | 3.48       | 315.90     | 3.72           |
| 2017/02/01 17:55 | 3.51       | 307.15     | 3.58           |
| 2017/02/01 18:10 | 3.55       | 324.79     | 3.72           |
| 2017/02/01 18:25 | 3.57       | 343.33     | 3.91           |
| 2017/02/01 18:40 | 3.69       | 359.44     | 3.91           |
| 2017/02/01 18:55 | 3.71       | 360.83     | 3.89           |
| 2017/02/01 19:10 | 3.82       | 375.69     | 3.89           |
| 2017/02/01 19:25 | 3.86       | 373.19     | 3.81           |
| 2017/02/01 19:40 | 3.86       | 373.19     | 3.81           |
| 2017/02/01 19:55 | 3.82       | 367.92     | 3.81           |
| 2017/02/01 20:10 | 3.82       | 380.62     | 3.94           |
| 2017/02/01 20:25 | 3.84       | 383.33     | 3.94           |
| 2017/02/01 20:40 | 3.84       | 383.33     | 3.94           |
| 2017/02/01 20:55 | 3.90       | 391.60     | 3.94           |
| 2017/02/01 21:10 | 3.90       | 390.14     | 3.93           |
| 2017/02/01 21:25 | 3.94       | 395.69     | 3.93           |
| 2017/02/01 21:40 | 3.94       | 378.75     | 3.76           |
| 2017/02/01 21:55 | 3.94       | 393.47     | 3.91           |
| 2017/02/01 22:10 | 3.90       | 387.98     | 3.91           |
| 2017/02/01 22:25 | 3.90       | 387.98     | 3.91           |
| 2017/02/01 22:40 | 3.90       | 387.98     | 3.91           |
| 2017/02/01 22:55 | 3.89       | 388.05     | 3.92           |
| 2017/02/01 23:10 | 3.87       | 385.35     | 3.92           |
| 2017/02/01 23:25 | 3.62       | 325.21     | 3.63           |
| 2017/02/01 23:40 | 3.40       | 284.86     | 3.47           |
| 2017/02/01 23:55 | 3.32       | 269.72     | 3.39           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 00:10 | 3.07       | 135.14     | 1.90           |
| 2017/02/02 00:25 | 2.94       | 127.15     | 1.90           |
| 2017/02/02 00:40 | 2.90       | 120.35     | 1.83           |
| 2017/02/02 00:55 | 2.86       | 118.06     | 1.83           |
| 2017/02/02 01:10 | 2.75       | 107.64     | 1.77           |
| 2017/02/02 01:25 | 2.57       | 87.29      | 1.58           |
| 2017/02/02 01:40 | 2.44       | 76.18      | 1.48           |
| 2017/02/02 01:55 | 2.43       | 69.37      | 1.36           |
| 2017/02/02 02:10 | 2.43       | 69.37      | 1.36           |
| 2017/02/02 02:25 | 2.43       | 75.69      | 1.48           |
| 2017/02/02 02:40 | 2.43       | 74.58      | 1.46           |
| 2017/02/02 02:55 | 2.43       | 74.58      | 1.46           |
| 2017/02/02 03:10 | 2.40       | 73.26      | 1.46           |
| 2017/02/02 03:25 | 2.36       | 67.57      | 1.38           |
| 2017/02/02 03:40 | 2.32       | 64.93      | 1.36           |
| 2017/02/02 03:55 | 2.30       | 63.75      | 1.35           |
| 2017/02/02 04:10 | 2.30       | 64.10      | 1.36           |
| 2017/02/02 04:25 | 2.30       | 64.10      | 1.36           |
| 2017/02/02 04:40 | 2.30       | 62.71      | 1.33           |
| 2017/02/02 04:55 | 2.33       | 66.04      | 1.37           |
| 2017/02/02 05:10 | 2.41       | 74.44      | 1.47           |
| 2017/02/02 05:25 | 2.50       | 83.47      | 1.57           |
| 2017/02/02 05:40 | 2.54       | 87.01      | 1.60           |
| 2017/02/02 05:55 | 2.55       | 91.87      | 1.68           |
| 2017/02/02 06:10 | 2.83       | 106.53     | 1.68           |
| 2017/02/02 06:25 | 2.96       | 126.87     | 1.88           |
| 2017/02/02 06:40 | 3.11       | 138.68     | 1.91           |
| 2017/02/02 06:55 | 3.29       | 171.25     | 2.18           |
| 2017/02/02 07:10 | 3.54       | 341.25     | 3.93           |
| 2017/02/02 07:25 | 3.76       | 392.36     | 4.15           |
| 2017/02/02 07:40 | 3.80       | 403.05     | 4.20           |
| 2017/02/02 07:55 | 3.84       | 408.89     | 4.20           |
| 2017/02/02 08:10 | 3.84       | 403.96     | 4.15           |
| 2017/02/02 08:25 | 3.84       | 367.71     | 3.78           |
| 2017/02/02 08:40 | 3.52       | 325.97     | 3.78           |
| 2017/02/02 08:55 | 3.48       | 292.99     | 3.45           |
| 2017/02/02 09:10 | 3.48       | 292.99     | 3.45           |
| 2017/02/02 09:25 | 3.47       | 264.03     | 3.12           |
| 2017/02/02 09:40 | 3.46       | 261.74     | 3.11           |
| 2017/02/02 09:55 | 3.44       | 259.65     | 3.11           |
| 2017/02/02 10:10 | 3.43       | 258.61     | 3.11           |
| 2017/02/02 10:25 | 3.41       | 251.67     | 3.05           |
| 2017/02/02 10:40 | 3.41       | 279.37     | 3.39           |
| 2017/02/02 10:55 | 3.36       | 287.22     | 3.56           |
| 2017/02/02 11:10 | 3.41       | 280.00     | 3.39           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 11:25 | 3.41       | 280.00     | 3.39           |
| 2017/02/02 11:40 | 3.44       | 283.40     | 3.39           |
| 2017/02/02 11:55 | 3.47       | 286.87     | 3.39           |
| 2017/02/02 12:10 | 3.51       | 291.46     | 3.39           |
| 2017/02/02 12:25 | 3.52       | 318.47     | 3.69           |
| 2017/02/02 12:40 | 3.52       | 320.35     | 3.72           |
| 2017/02/02 12:55 | 3.48       | 315.28     | 3.72           |
| 2017/02/02 13:10 | 3.48       | 313.40     | 3.69           |
| 2017/02/02 13:25 | 3.44       | 308.40     | 3.69           |
| 2017/02/02 13:40 | 3.40       | 304.03     | 3.70           |
| 2017/02/02 13:55 | 3.40       | 291.46     | 3.55           |
| 2017/02/02 14:10 | 3.40       | 295.00     | 3.59           |
| 2017/02/02 14:25 | 3.43       | 304.10     | 3.66           |
| 2017/02/02 14:40 | 3.43       | 298.68     | 3.59           |
| 2017/02/02 14:55 | 3.43       | 288.33     | 3.47           |
| 2017/02/02 15:10 | 3.40       | 295.00     | 3.59           |
| 2017/02/02 15:25 | 3.37       | 281.32     | 3.47           |
| 2017/02/02 15:40 | 3.23       | 232.22     | 3.04           |
| 2017/02/02 15:55 | 3.23       | 232.22     | 3.04           |
| 2017/02/02 16:10 | 3.18       | 167.08     | 2.23           |
| 2017/02/02 16:25 | 3.18       | 164.37     | 2.20           |
| 2017/02/02 16:40 | 3.18       | 164.37     | 2.20           |
| 2017/02/02 16:55 | 3.23       | 167.99     | 2.20           |
| 2017/02/02 17:10 | 3.36       | 261.87     | 3.24           |
| 2017/02/02 17:25 | 3.36       | 261.87     | 3.24           |
| 2017/02/02 17:40 | 3.36       | 284.30     | 3.52           |
| 2017/02/02 17:55 | 3.36       | 261.87     | 3.24           |
| 2017/02/02 18:10 | 3.44       | 293.82     | 3.52           |
| 2017/02/02 18:25 | 3.47       | 297.36     | 3.52           |
| 2017/02/02 18:40 | 3.55       | 327.99     | 3.76           |
| 2017/02/02 18:55 | 3.55       | 327.99     | 3.76           |
| 2017/02/02 19:10 | 3.55       | 327.99     | 3.76           |
| 2017/02/02 19:25 | 3.57       | 330.55     | 3.76           |
| 2017/02/02 19:40 | 3.57       | 315.76     | 3.59           |
| 2017/02/02 19:55 | 3.76       | 339.30     | 3.59           |
| 2017/02/02 20:10 | 3.76       | 381.32     | 4.04           |
| 2017/02/02 20:25 | 3.84       | 411.73     | 4.23           |
| 2017/02/02 20:40 | 3.84       | 392.57     | 4.04           |
| 2017/02/02 20:55 | 3.91       | 402.43     | 4.04           |
| 2017/02/02 21:10 | 3.86       | 395.42     | 4.04           |
| 2017/02/02 21:25 | 3.84       | 379.10     | 3.90           |
| 2017/02/02 21:40 | 3.82       | 373.54     | 3.87           |
| 2017/02/02 21:55 | 3.83       | 374.93     | 3.87           |
| 2017/02/02 22:10 | 3.82       | 374.23     | 3.88           |
| 2017/02/02 22:25 | 3.76       | 366.18     | 3.88           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 22:40 | 3.76       | 371.67     | 3.93           |
| 2017/02/02 22:55 | 3.69       | 367.50     | 3.99           |
| 2017/02/02 23:10 | 3.68       | 360.76     | 3.93           |
| 2017/02/02 23:25 | 3.68       | 360.76     | 3.93           |
| 2017/02/02 23:40 | 3.46       | 307.85     | 3.66           |
| 2017/02/02 23:55 | 3.36       | 251.25     | 3.11           |
| 2017/02/03 00:10 | 3.32       | 220.97     | 2.78           |
| 2017/02/03 00:25 | 2.82       | 113.89     | 1.80           |
| 2017/02/03 00:40 | 2.75       | 106.32     | 1.74           |
| 2017/02/03 00:55 | 2.73       | 93.75      | 1.55           |
| 2017/02/03 01:10 | 2.65       | 88.61      | 1.53           |
| 2017/02/03 01:25 | 2.58       | 83.26      | 1.50           |
| 2017/02/03 01:40 | 2.37       | 73.75      | 1.50           |
| 2017/02/03 01:55 | 2.37       | 73.75      | 1.50           |
| 2017/02/03 02:10 | 2.22       | 66.81      | 1.49           |
| 2017/02/03 02:25 | 2.18       | 60.62      | 1.39           |
| 2017/02/03 02:40 | 2.15       | 56.94      | 1.33           |
| 2017/02/03 02:55 | 2.14       | 55.35      | 1.30           |
| 2017/02/03 03:10 | 2.14       | 55.35      | 1.30           |
| 2017/02/03 03:25 | 2.14       | 54.10      | 1.27           |
| 2017/02/03 03:40 | 2.14       | 55.35      | 1.30           |
| 2017/02/03 03:55 | 2.33       | 68.12      | 1.42           |
| 2017/02/03 04:10 | 2.33       | 68.12      | 1.42           |
| 2017/02/03 04:25 | 2.39       | 70.62      | 1.42           |
| 2017/02/03 04:40 | 2.39       | 70.62      | 1.42           |
| 2017/02/03 04:55 | 2.23       | 62.01      | 1.37           |
| 2017/02/03 05:10 | 2.23       | 62.01      | 1.37           |
| 2017/02/03 05:25 | 2.39       | 74.31      | 1.49           |
| 2017/02/03 05:40 | 2.39       | 68.47      | 1.37           |
| 2017/02/03 05:55 | 2.48       | 81.04      | 1.54           |
| 2017/02/03 06:10 | 2.61       | 89.65      | 1.58           |
| 2017/02/03 06:25 | 2.69       | 95.69      | 1.62           |
| 2017/02/03 06:40 | 2.76       | 104.17     | 1.70           |
| 2017/02/03 06:55 | 3.08       | 131.60     | 1.84           |
| 2017/02/03 07:10 | 3.55       | 323.47     | 3.71           |
| 2017/02/03 07:25 | 3.72       | 360.14     | 3.87           |
| 2017/02/03 07:40 | 3.72       | 360.14     | 3.87           |
| 2017/02/03 07:55 | 3.72       | 360.14     | 3.87           |
| 2017/02/03 08:10 | 3.69       | 349.37     | 3.80           |
| 2017/02/03 08:25 | 3.65       | 334.86     | 3.69           |
| 2017/02/03 08:40 | 3.64       | 327.71     | 3.63           |
| 2017/02/03 08:55 | 3.44       | 292.57     | 3.50           |
| 2017/02/03 09:10 | 3.43       | 265.90     | 3.20           |
| 2017/02/03 09:25 | 3.36       | 258.33     | 3.20           |
| 2017/02/03 09:40 | 3.29       | 250.83     | 3.20           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 09:55 | 3.29       | 250.83     | 3.20           |
| 2017/02/03 10:10 | 3.29       | 259.44     | 3.31           |
| 2017/02/03 10:25 | 3.27       | 273.12     | 3.51           |
| 2017/02/03 10:40 | 3.27       | 282.78     | 3.64           |
| 2017/02/03 10:55 | 3.36       | 293.75     | 3.64           |
| 2017/02/03 11:10 | 3.36       | 294.93     | 3.65           |
| 2017/02/03 11:25 | 3.36       | 294.93     | 3.65           |
| 2017/02/03 11:40 | 3.36       | 284.30     | 3.52           |
| 2017/02/03 11:55 | 3.36       | 284.30     | 3.52           |
| 2017/02/03 12:10 | 3.39       | 308.75     | 3.77           |
| 2017/02/03 12:25 | 3.39       | 289.65     | 3.54           |
| 2017/02/03 12:40 | 3.39       | 301.60     | 3.69           |
| 2017/02/03 12:55 | 3.39       | 301.60     | 3.69           |
| 2017/02/03 13:10 | 3.40       | 302.85     | 3.69           |
| 2017/02/03 13:25 | 3.39       | 295.00     | 3.61           |
| 2017/02/03 13:40 | 3.36       | 291.39     | 3.61           |
| 2017/02/03 13:55 | 3.36       | 289.58     | 3.58           |
| 2017/02/03 14:10 | 3.30       | 281.80     | 3.58           |
| 2017/02/03 14:25 | 3.29       | 278.33     | 3.55           |
| 2017/02/03 14:40 | 3.29       | 249.72     | 3.18           |
| 2017/02/03 14:55 | 3.29       | 278.33     | 3.55           |
| 2017/02/03 15:10 | 3.29       | 278.33     | 3.55           |
| 2017/02/03 15:25 | 3.32       | 240.69     | 3.03           |
| 2017/02/03 15:40 | 3.32       | 283.05     | 3.56           |
| 2017/02/03 15:55 | 3.34       | 285.42     | 3.56           |
| 2017/02/03 16:10 | 3.34       | 283.68     | 3.54           |
| 2017/02/03 16:25 | 3.32       | 274.93     | 3.46           |
| 2017/02/03 16:40 | 3.34       | 277.22     | 3.46           |
| 2017/02/03 16:55 | 3.37       | 264.17     | 3.26           |
| 2017/02/03 17:10 | 3.30       | 241.60     | 3.07           |
| 2017/02/03 17:25 | 3.30       | 256.53     | 3.26           |
| 2017/02/03 17:40 | 3.37       | 248.75     | 3.07           |
| 2017/02/03 17:55 | 3.33       | 253.40     | 3.18           |
| 2017/02/03 18:10 | 3.30       | 241.60     | 3.07           |
| 2017/02/03 18:25 | 3.33       | 253.40     | 3.18           |
| 2017/02/03 18:40 | 3.37       | 257.64     | 3.18           |
| 2017/02/03 18:55 | 3.44       | 282.22     | 3.38           |
| 2017/02/03 19:10 | 3.58       | 301.53     | 3.42           |
| 2017/02/03 19:25 | 3.58       | 310.55     | 3.52           |
| 2017/02/03 19:40 | 3.58       | 345.35     | 3.91           |
| 2017/02/03 19:55 | 3.66       | 356.11     | 3.91           |
| 2017/02/03 20:10 | 3.66       | 358.75     | 3.94           |
| 2017/02/03 20:25 | 3.65       | 354.72     | 3.91           |
| 2017/02/03 20:40 | 3.51       | 332.85     | 3.88           |
| 2017/02/03 20:55 | 3.59       | 330.49     | 3.73           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 21:10 | 3.48       | 316.53     | 3.73           |
| 2017/02/03 21:25 | 3.48       | 316.53     | 3.73           |
| 2017/02/03 21:40 | 3.58       | 327.92     | 3.72           |
| 2017/02/03 21:55 | 3.59       | 329.24     | 3.72           |
| 2017/02/03 22:10 | 3.58       | 327.92     | 3.72           |
| 2017/02/03 22:25 | 3.58       | 327.92     | 3.72           |
| 2017/02/03 22:40 | 3.50       | 317.78     | 3.72           |
| 2017/02/03 22:55 | 3.48       | 313.40     | 3.69           |
| 2017/02/03 23:10 | 3.46       | 288.19     | 3.42           |
| 2017/02/03 23:25 | 3.33       | 260.97     | 3.27           |
| 2017/02/03 23:40 | 3.33       | 242.29     | 3.04           |
| 2017/02/03 23:55 | 3.29       | 238.26     | 3.04           |
| 2017/02/04 00:10 | 3.29       | 227.92     | 2.91           |
| 2017/02/04 00:25 | 3.29       | 196.46     | 2.50           |
| 2017/02/04 00:40 | 3.07       | 146.53     | 2.06           |
| 2017/02/04 00:55 | 2.97       | 123.47     | 1.82           |
| 2017/02/04 01:10 | 2.97       | 123.47     | 1.82           |
| 2017/02/04 01:25 | 2.84       | 115.00     | 1.80           |
| 2017/02/04 01:40 | 2.80       | 110.90     | 1.77           |
| 2017/02/04 01:55 | 2.80       | 103.12     | 1.65           |
| 2017/02/04 02:10 | 2.41       | 76.32      | 1.51           |
| 2017/02/04 02:25 | 2.40       | 75.14      | 1.50           |
| 2017/02/04 02:40 | 2.36       | 68.33      | 1.39           |
| 2017/02/04 02:55 | 2.36       | 68.68      | 1.40           |
| 2017/02/04 03:10 | 2.26       | 63.89      | 1.39           |
| 2017/02/04 03:25 | 2.26       | 64.51      | 1.40           |
| 2017/02/04 03:40 | 2.26       | 63.89      | 1.39           |
| 2017/02/04 03:55 | 2.26       | 63.89      | 1.39           |
| 2017/02/04 04:10 | 2.22       | 62.22      | 1.39           |
| 2017/02/04 04:25 | 2.21       | 61.18      | 1.37           |
| 2017/02/04 04:40 | 2.14       | 57.15      | 1.34           |
| 2017/02/04 04:55 | 2.04       | 49.03      | 1.23           |
| 2017/02/04 05:10 | 2.04       | 49.03      | 1.23           |
| 2017/02/04 05:25 | 2.03       | 46.39      | 1.18           |
| 2017/02/04 05:40 | 1.98       | 42.78      | 1.12           |
| 2017/02/04 05:55 | 2.04       | 49.03      | 1.23           |
| 2017/02/04 06:10 | 2.04       | 51.04      | 1.28           |
| 2017/02/04 06:25 | 2.09       | 52.85      | 1.28           |
| 2017/02/04 06:40 | 2.36       | 72.22      | 1.47           |
| 2017/02/04 06:55 | 2.43       | 75.35      | 1.47           |
| 2017/02/04 07:10 | 2.44       | 77.29      | 1.50           |
| 2017/02/04 07:25 | 2.44       | 77.64      | 1.51           |
| 2017/02/04 07:40 | 2.47       | 79.79      | 1.53           |
| 2017/02/04 07:55 | 2.80       | 104.03     | 1.66           |
| 2017/02/04 08:10 | 2.97       | 125.49     | 1.85           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 08:25 | 3.01       | 131.94     | 1.91           |
| 2017/02/04 08:40 | 3.32       | 158.33     | 1.99           |
| 2017/02/04 08:55 | 3.44       | 305.35     | 3.66           |
| 2017/02/04 09:10 | 3.61       | 326.53     | 3.66           |
| 2017/02/04 09:25 | 3.69       | 336.60     | 3.66           |
| 2017/02/04 09:40 | 3.69       | 336.60     | 3.66           |
| 2017/02/04 09:55 | 3.77       | 348.82     | 3.68           |
| 2017/02/04 10:10 | 3.79       | 351.39     | 3.68           |
| 2017/02/04 10:25 | 3.79       | 375.76     | 3.93           |
| 2017/02/04 10:40 | 3.80       | 383.47     | 4.00           |
| 2017/02/04 10:55 | 3.80       | 390.42     | 4.07           |
| 2017/02/04 11:10 | 3.83       | 403.89     | 4.17           |
| 2017/02/04 11:25 | 3.83       | 403.89     | 4.17           |
| 2017/02/04 11:40 | 3.80       | 399.51     | 4.17           |
| 2017/02/04 11:55 | 3.76       | 395.83     | 4.19           |
| 2017/02/04 12:10 | 3.76       | 370.28     | 3.92           |
| 2017/02/04 12:25 | 3.75       | 344.24     | 3.66           |
| 2017/02/04 12:40 | 3.75       | 344.24     | 3.66           |
| 2017/02/04 12:55 | 3.75       | 380.62     | 4.04           |
| 2017/02/04 13:10 | 3.69       | 372.22     | 4.04           |
| 2017/02/04 13:25 | 3.69       | 372.22     | 4.04           |
| 2017/02/04 13:40 | 3.68       | 370.83     | 4.04           |
| 2017/02/04 13:55 | 3.68       | 366.18     | 3.99           |
| 2017/02/04 14:10 | 3.68       | 366.18     | 3.99           |
| 2017/02/04 14:25 | 3.69       | 344.03     | 3.74           |
| 2017/02/04 14:40 | 3.66       | 327.50     | 3.60           |
| 2017/02/04 14:55 | 3.66       | 340.14     | 3.74           |
| 2017/02/04 15:10 | 3.66       | 358.05     | 3.93           |
| 2017/02/04 15:25 | 3.66       | 358.05     | 3.93           |
| 2017/02/04 15:40 | 3.66       | 358.05     | 3.93           |
| 2017/02/04 15:55 | 3.66       | 358.05     | 3.93           |
| 2017/02/04 16:10 | 3.65       | 345.49     | 3.81           |
| 2017/02/04 16:25 | 3.61       | 332.43     | 3.72           |
| 2017/02/04 16:40 | 3.48       | 315.90     | 3.72           |
| 2017/02/04 16:55 | 3.48       | 295.49     | 3.48           |
| 2017/02/04 17:10 | 3.48       | 295.49     | 3.48           |
| 2017/02/04 17:25 | 3.48       | 294.24     | 3.47           |
| 2017/02/04 17:40 | 3.48       | 300.42     | 3.54           |
| 2017/02/04 17:55 | 3.57       | 293.96     | 3.34           |
| 2017/02/04 18:10 | 3.57       | 293.96     | 3.34           |
| 2017/02/04 18:25 | 3.57       | 293.96     | 3.34           |
| 2017/02/04 18:40 | 3.57       | 300.35     | 3.42           |
| 2017/02/04 18:55 | 3.57       | 300.35     | 3.42           |
| 2017/02/04 19:10 | 3.57       | 304.24     | 3.46           |
| 2017/02/04 19:25 | 3.57       | 308.68     | 3.51           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 19:40 | 3.57       | 308.68     | 3.51           |
| 2017/02/04 19:55 | 3.61       | 308.96     | 3.46           |
| 2017/02/04 20:10 | 3.57       | 304.24     | 3.46           |
| 2017/02/04 20:25 | 3.55       | 306.32     | 3.51           |
| 2017/02/04 20:40 | 3.52       | 317.85     | 3.69           |
| 2017/02/04 20:55 | 3.52       | 319.10     | 3.70           |
| 2017/02/04 21:10 | 3.52       | 319.10     | 3.70           |
| 2017/02/04 21:25 | 3.39       | 301.60     | 3.69           |
| 2017/02/04 21:40 | 3.29       | 283.47     | 3.61           |
| 2017/02/04 21:55 | 3.29       | 283.47     | 3.61           |
| 2017/02/04 22:10 | 3.29       | 283.47     | 3.61           |
| 2017/02/04 22:25 | 3.44       | 282.85     | 3.39           |
| 2017/02/04 22:40 | 3.44       | 303.54     | 3.64           |
| 2017/02/04 22:55 | 3.44       | 303.54     | 3.64           |
| 2017/02/04 23:10 | 3.41       | 287.22     | 3.48           |
| 2017/02/04 23:25 | 3.27       | 263.47     | 3.39           |
| 2017/02/04 23:40 | 3.27       | 235.07     | 3.02           |
| 2017/02/04 23:55 | 3.23       | 184.72     | 2.42           |
| 2017/02/05 00:10 | 3.23       | 157.43     | 2.06           |
| 2017/02/05 00:25 | 3.07       | 145.00     | 2.04           |
| 2017/02/05 00:40 | 3.04       | 131.74     | 1.88           |
| 2017/02/05 00:55 | 2.94       | 124.65     | 1.86           |
| 2017/02/05 01:10 | 2.83       | 113.06     | 1.78           |
| 2017/02/05 01:25 | 2.82       | 110.62     | 1.75           |
| 2017/02/05 01:40 | 2.76       | 107.29     | 1.75           |
| 2017/02/05 01:55 | 2.75       | 105.90     | 1.74           |
| 2017/02/05 02:10 | 2.71       | 103.68     | 1.74           |
| 2017/02/05 02:25 | 2.54       | 85.42      | 1.57           |
| 2017/02/05 02:40 | 2.32       | 72.57      | 1.52           |
| 2017/02/05 02:55 | 2.32       | 72.57      | 1.52           |
| 2017/02/05 03:10 | 2.32       | 67.36      | 1.41           |
| 2017/02/05 03:25 | 2.29       | 67.50      | 1.44           |
| 2017/02/05 03:40 | 2.29       | 67.50      | 1.44           |
| 2017/02/05 03:55 | 2.29       | 62.71      | 1.34           |
| 2017/02/05 04:10 | 2.25       | 61.11      | 1.34           |
| 2017/02/05 04:25 | 2.18       | 58.40      | 1.34           |
| 2017/02/05 04:40 | 2.18       | 58.12      | 1.33           |
| 2017/02/05 04:55 | 2.16       | 56.39      | 1.31           |
| 2017/02/05 05:10 | 2.14       | 55.62      | 1.31           |
| 2017/02/05 05:25 | 2.11       | 54.51      | 1.31           |
| 2017/02/05 05:40 | 2.09       | 52.29      | 1.27           |
| 2017/02/05 05:55 | 2.09       | 52.29      | 1.27           |
| 2017/02/05 06:10 | 2.09       | 55.28      | 1.34           |
| 2017/02/05 06:25 | 2.12       | 56.39      | 1.34           |
| 2017/02/05 06:40 | 2.12       | 57.92      | 1.38           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 06:55 | 2.18       | 61.25      | 1.40           |
| 2017/02/05 07:10 | 2.32       | 67.01      | 1.40           |
| 2017/02/05 07:25 | 2.34       | 68.19      | 1.41           |
| 2017/02/05 07:40 | 2.48       | 76.04      | 1.45           |
| 2017/02/05 07:55 | 2.55       | 89.51      | 1.64           |
| 2017/02/05 08:10 | 2.64       | 95.28      | 1.66           |
| 2017/02/05 08:25 | 2.90       | 122.78     | 1.87           |
| 2017/02/05 08:40 | 3.01       | 134.44     | 1.94           |
| 2017/02/05 08:55 | 3.05       | 137.99     | 1.96           |
| 2017/02/05 09:10 | 3.07       | 141.87     | 1.99           |
| 2017/02/05 09:25 | 3.34       | 177.22     | 2.21           |
| 2017/02/05 09:40 | 3.55       | 257.29     | 2.95           |
| 2017/02/05 09:55 | 3.58       | 282.85     | 3.20           |
| 2017/02/05 10:10 | 3.62       | 288.54     | 3.22           |
| 2017/02/05 10:25 | 3.76       | 345.49     | 3.66           |
| 2017/02/05 10:40 | 3.86       | 381.80     | 3.90           |
| 2017/02/05 10:55 | 3.96       | 395.48     | 3.90           |
| 2017/02/05 11:10 | 4.01       | 402.36     | 3.90           |
| 2017/02/05 11:25 | 4.01       | 402.36     | 3.90           |
| 2017/02/05 11:40 | 3.96       | 388.05     | 3.83           |
| 2017/02/05 11:55 | 3.93       | 366.46     | 3.65           |
| 2017/02/05 12:10 | 3.93       | 366.46     | 3.65           |
| 2017/02/05 12:25 | 3.89       | 361.32     | 3.65           |
| 2017/02/05 12:40 | 3.90       | 357.50     | 3.60           |
| 2017/02/05 12:55 | 3.90       | 362.64     | 3.65           |
| 2017/02/05 13:10 | 3.89       | 356.25     | 3.60           |
| 2017/02/05 13:25 | 3.77       | 341.18     | 3.60           |
| 2017/02/05 13:40 | 3.77       | 352.29     | 3.72           |
| 2017/02/05 13:55 | 3.75       | 365.48     | 3.88           |
| 2017/02/05 14:10 | 3.75       | 368.96     | 3.92           |
| 2017/02/05 14:25 | 3.75       | 371.67     | 3.95           |
| 2017/02/05 14:40 | 3.75       | 368.96     | 3.92           |
| 2017/02/05 14:55 | 3.75       | 371.67     | 3.95           |
| 2017/02/05 15:10 | 3.75       | 371.67     | 3.95           |
| 2017/02/05 15:25 | 3.73       | 362.85     | 3.88           |
| 2017/02/05 15:40 | 3.58       | 342.78     | 3.88           |
| 2017/02/05 15:55 | 3.57       | 341.46     | 3.88           |
| 2017/02/05 16:10 | 3.47       | 312.15     | 3.69           |
| 2017/02/05 16:25 | 3.46       | 291.25     | 3.46           |
| 2017/02/05 16:40 | 3.46       | 278.33     | 3.31           |
| 2017/02/05 16:55 | 3.46       | 189.30     | 2.25           |
| 2017/02/05 17:10 | 3.44       | 179.44     | 2.15           |
| 2017/02/05 17:25 | 3.40       | 176.60     | 2.15           |
| 2017/02/05 17:40 | 3.40       | 191.74     | 2.33           |
| 2017/02/05 17:55 | 3.40       | 194.86     | 2.37           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 18:10 | 3.43       | 198.89     | 2.39           |
| 2017/02/05 18:25 | 3.48       | 204.10     | 2.41           |
| 2017/02/05 18:40 | 3.48       | 202.92     | 2.39           |
| 2017/02/05 18:55 | 3.48       | 202.92     | 2.39           |
| 2017/02/05 19:10 | 3.48       | 202.92     | 2.39           |
| 2017/02/05 19:25 | 3.55       | 209.86     | 2.41           |
| 2017/02/05 19:40 | 3.57       | 209.03     | 2.38           |
| 2017/02/05 19:55 | 3.62       | 213.05     | 2.38           |
| 2017/02/05 20:10 | 3.66       | 217.64     | 2.39           |
| 2017/02/05 20:25 | 3.68       | 203.19     | 2.22           |
| 2017/02/05 20:40 | 3.71       | 205.49     | 2.22           |
| 2017/02/05 20:55 | 3.76       | 218.75     | 2.32           |
| 2017/02/05 21:10 | 3.76       | 225.90     | 2.39           |
| 2017/02/05 21:25 | 3.76       | 238.89     | 2.53           |
| 2017/02/05 21:40 | 3.76       | 238.89     | 2.53           |
| 2017/02/05 21:55 | 3.76       | 238.89     | 2.53           |
| 2017/02/05 22:10 | 3.77       | 242.01     | 2.55           |
| 2017/02/05 22:25 | 3.77       | 239.79     | 2.53           |
| 2017/02/05 22:40 | 3.77       | 213.68     | 2.25           |
| 2017/02/05 22:55 | 3.72       | 205.35     | 2.21           |
| 2017/02/05 23:10 | 3.44       | 183.82     | 2.20           |
| 2017/02/05 23:25 | 3.41       | 173.75     | 2.11           |
| 2017/02/05 23:40 | 3.36       | 170.21     | 2.11           |
| 2017/02/05 23:55 | 3.26       | 138.19     | 1.78           |
| 2017/02/06 00:10 | 2.93       | 79.37      | 1.19           |
| 2017/02/06 00:25 | 2.82       | 71.60      | 1.13           |
| 2017/02/06 00:40 | 2.69       | 65.00      | 1.10           |
| 2017/02/06 00:55 | 2.43       | 51.67      | 1.01           |
| 2017/02/06 01:10 | 2.37       | 45.62      | 0.93           |
| 2017/02/06 01:25 | 2.34       | 43.61      | 0.90           |
| 2017/02/06 01:40 | 2.25       | 41.25      | 0.90           |
| 2017/02/06 01:55 | 2.15       | 39.65      | 0.93           |
| 2017/02/06 02:10 | 2.15       | 39.65      | 0.93           |
| 2017/02/06 02:25 | 2.11       | 31.67      | 0.76           |
| 2017/02/06 02:40 | 2.03       | 35.21      | 0.89           |
| 2017/02/06 02:55 | 1.94       | 27.50      | 0.74           |
| 2017/02/06 03:10 | 1.94       | 27.50      | 0.74           |
| 2017/02/06 03:25 | 1.94       | 27.50      | 0.74           |
| 2017/02/06 03:40 | 2.08       | 34.93      | 0.85           |
| 2017/02/06 03:55 | 2.11       | 35.62      | 0.85           |
| 2017/02/06 04:10 | 2.15       | 37.22      | 0.87           |
| 2017/02/06 04:25 | 2.15       | 37.22      | 0.87           |
| 2017/02/06 04:40 | 2.18       | 41.87      | 0.96           |
| 2017/02/06 04:55 | 2.18       | 41.87      | 0.96           |
| 2017/02/06 05:10 | 2.25       | 43.89      | 0.96           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 05:25 | 2.34       | 45.00      | 0.93           |
| 2017/02/06 05:40 | 2.36       | 45.56      | 0.93           |
| 2017/02/06 05:55 | 2.43       | 47.50      | 0.93           |
| 2017/02/06 06:10 | 2.65       | 64.17      | 1.11           |
| 2017/02/06 06:25 | 2.80       | 69.37      | 1.11           |
| 2017/02/06 06:40 | 2.84       | 73.54      | 1.15           |
| 2017/02/06 06:55 | 3.08       | 82.78      | 1.16           |
| 2017/02/06 07:10 | 3.21       | 100.35     | 1.32           |
| 2017/02/06 07:25 | 3.47       | 132.71     | 1.57           |
| 2017/02/06 07:40 | 3.64       | 216.39     | 2.40           |
| 2017/02/06 07:55 | 3.64       | 216.39     | 2.40           |
| 2017/02/06 08:10 | 3.64       | 216.39     | 2.40           |
| 2017/02/06 08:25 | 3.58       | 204.37     | 2.32           |
| 2017/02/06 08:40 | 3.50       | 192.78     | 2.25           |
| 2017/02/06 08:55 | 3.50       | 185.07     | 2.16           |
| 2017/02/06 09:10 | 3.43       | 179.93     | 2.16           |
| 2017/02/06 09:25 | 3.50       | 192.78     | 2.25           |
| 2017/02/06 09:40 | 3.43       | 181.87     | 2.19           |
| 2017/02/06 09:55 | 3.41       | 185.90     | 2.25           |
| 2017/02/06 10:10 | 3.43       | 187.43     | 2.25           |
| 2017/02/06 10:25 | 3.47       | 191.25     | 2.26           |
| 2017/02/06 10:40 | 3.47       | 191.25     | 2.26           |
| 2017/02/06 10:55 | 3.51       | 194.37     | 2.26           |
| 2017/02/06 11:10 | 3.57       | 185.21     | 2.11           |
| 2017/02/06 11:25 | 3.51       | 180.90     | 2.11           |
| 2017/02/06 11:40 | 3.54       | 183.05     | 2.11           |
| 2017/02/06 11:55 | 3.51       | 177.22     | 2.06           |
| 2017/02/06 12:10 | 3.51       | 173.19     | 2.02           |
| 2017/02/06 12:25 | 3.50       | 172.50     | 2.02           |
| 2017/02/06 12:40 | 3.47       | 178.82     | 2.12           |
| 2017/02/06 12:55 | 3.47       | 178.82     | 2.12           |
| 2017/02/06 13:10 | 3.50       | 204.93     | 2.40           |
| 2017/02/06 13:25 | 3.51       | 206.60     | 2.41           |
| 2017/02/06 13:40 | 3.52       | 206.60     | 2.40           |
| 2017/02/06 13:55 | 3.52       | 207.43     | 2.41           |
| 2017/02/06 14:10 | 3.52       | 206.60     | 2.40           |
| 2017/02/06 14:25 | 3.52       | 204.93     | 2.38           |
| 2017/02/06 14:40 | 3.52       | 204.93     | 2.38           |
| 2017/02/06 14:55 | 3.54       | 206.60     | 2.38           |
| 2017/02/06 15:10 | 3.54       | 206.60     | 2.38           |
| 2017/02/06 15:25 | 3.61       | 213.54     | 2.39           |
| 2017/02/06 15:40 | 3.61       | 219.03     | 2.45           |
| 2017/02/06 15:55 | 3.48       | 206.11     | 2.43           |
| 2017/02/06 16:10 | 3.48       | 208.12     | 2.45           |
| 2017/02/06 16:25 | 3.59       | 228.68     | 2.58           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 16:40 | 3.59       | 228.68     | 2.58           |
| 2017/02/06 16:55 | 3.62       | 231.39     | 2.58           |
| 2017/02/06 17:10 | 3.62       | 231.39     | 2.58           |
| 2017/02/06 17:25 | 3.62       | 221.18     | 2.47           |
| 2017/02/06 17:40 | 3.52       | 212.71     | 2.47           |
| 2017/02/06 17:55 | 3.52       | 209.86     | 2.43           |
| 2017/02/06 18:10 | 3.52       | 209.86     | 2.43           |
| 2017/02/06 18:25 | 3.64       | 219.86     | 2.43           |
| 2017/02/06 18:40 | 3.68       | 226.67     | 2.47           |
| 2017/02/06 18:55 | 3.68       | 231.46     | 2.52           |
| 2017/02/06 19:10 | 3.68       | 234.93     | 2.56           |
| 2017/02/06 19:25 | 3.65       | 232.29     | 2.56           |
| 2017/02/06 19:40 | 3.62       | 226.25     | 2.52           |
| 2017/02/06 19:55 | 3.48       | 187.22     | 2.21           |
| 2017/02/06 20:10 | 3.48       | 187.22     | 2.21           |
| 2017/02/06 20:25 | 3.48       | 187.22     | 2.21           |
| 2017/02/06 20:40 | 3.51       | 211.46     | 2.46           |
| 2017/02/06 20:55 | 3.55       | 219.37     | 2.51           |
| 2017/02/06 21:10 | 3.61       | 224.51     | 2.51           |
| 2017/02/06 21:25 | 3.64       | 227.15     | 2.51           |
| 2017/02/06 21:40 | 3.68       | 224.10     | 2.44           |
| 2017/02/06 21:55 | 3.68       | 224.10     | 2.44           |
| 2017/02/06 22:10 | 3.71       | 226.60     | 2.44           |
| 2017/02/06 22:25 | 3.82       | 242.78     | 2.51           |
| 2017/02/06 22:40 | 3.83       | 243.68     | 2.51           |
| 2017/02/06 22:55 | 3.83       | 247.36     | 2.55           |
| 2017/02/06 23:10 | 3.82       | 246.46     | 2.55           |
| 2017/02/06 23:25 | 3.79       | 238.82     | 2.50           |
| 2017/02/06 23:40 | 3.44       | 197.71     | 2.37           |
| 2017/02/06 23:55 | 3.37       | 140.90     | 1.74           |
| 2017/02/07 00:10 | 3.22       | 97.50      | 1.28           |
| 2017/02/07 00:25 | 2.98       | 83.54      | 1.22           |
| 2017/02/07 00:40 | 2.91       | 80.21      | 1.21           |
| 2017/02/07 00:55 | 2.73       | 64.37      | 1.07           |
| 2017/02/07 01:10 | 2.72       | 62.36      | 1.04           |
| 2017/02/07 01:25 | 2.72       | 59.24      | 0.99           |
| 2017/02/07 01:40 | 2.64       | 55.69      | 0.97           |
| 2017/02/07 01:55 | 2.46       | 50.35      | 0.97           |
| 2017/02/07 02:10 | 2.37       | 47.50      | 0.96           |
| 2017/02/07 02:25 | 2.36       | 42.08      | 0.86           |
| 2017/02/07 02:40 | 2.34       | 41.60      | 0.86           |
| 2017/02/07 02:55 | 2.28       | 39.58      | 0.85           |
| 2017/02/07 03:10 | 2.28       | 38.26      | 0.82           |
| 2017/02/07 03:25 | 2.28       | 38.26      | 0.82           |
| 2017/02/07 03:40 | 2.23       | 37.08      | 0.82           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 03:55 | 2.23       | 37.08      | 0.82           |
| 2017/02/07 04:10 | 2.23       | 37.92      | 0.84           |
| 2017/02/07 04:25 | 2.29       | 42.99      | 0.92           |
| 2017/02/07 04:40 | 2.30       | 43.26      | 0.92           |
| 2017/02/07 04:55 | 2.39       | 46.18      | 0.93           |
| 2017/02/07 05:10 | 2.41       | 47.92      | 0.95           |
| 2017/02/07 05:25 | 2.54       | 52.92      | 0.97           |
| 2017/02/07 05:40 | 2.61       | 58.54      | 1.03           |
| 2017/02/07 05:55 | 2.68       | 61.32      | 1.04           |
| 2017/02/07 06:10 | 2.69       | 62.22      | 1.05           |
| 2017/02/07 06:25 | 2.89       | 71.04      | 1.09           |
| 2017/02/07 06:40 | 2.94       | 76.25      | 1.14           |
| 2017/02/07 06:55 | 3.26       | 102.92     | 1.33           |
| 2017/02/07 07:10 | 3.40       | 129.79     | 1.58           |
| 2017/02/07 07:25 | 3.57       | 218.61     | 2.49           |
| 2017/02/07 07:40 | 3.82       | 244.65     | 2.53           |
| 2017/02/07 07:55 | 3.83       | 245.55     | 2.53           |
| 2017/02/07 08:10 | 3.83       | 245.55     | 2.53           |
| 2017/02/07 08:25 | 3.83       | 226.67     | 2.34           |
| 2017/02/07 08:40 | 3.83       | 219.30     | 2.26           |
| 2017/02/07 08:55 | 3.75       | 206.74     | 2.20           |
| 2017/02/07 09:10 | 3.58       | 192.64     | 2.18           |
| 2017/02/07 09:25 | 3.57       | 191.87     | 2.18           |
| 2017/02/07 09:40 | 3.47       | 182.08     | 2.15           |
| 2017/02/07 09:55 | 3.55       | 181.32     | 2.08           |
| 2017/02/07 10:10 | 3.55       | 181.32     | 2.08           |
| 2017/02/07 10:25 | 3.54       | 187.15     | 2.15           |
| 2017/02/07 10:40 | 3.55       | 192.92     | 2.21           |
| 2017/02/07 10:55 | 3.55       | 204.44     | 2.34           |
| 2017/02/07 11:10 | 3.54       | 203.68     | 2.34           |
| 2017/02/07 11:25 | 3.51       | 206.18     | 2.40           |
| 2017/02/07 11:40 | 3.50       | 196.04     | 2.29           |
| 2017/02/07 11:55 | 3.50       | 174.93     | 2.05           |
| 2017/02/07 12:10 | 3.45       | 192.15     | 2.29           |
| 2017/02/07 12:25 | 3.45       | 200.49     | 2.39           |
| 2017/02/07 12:40 | 3.43       | 198.89     | 2.39           |
| 2017/02/07 12:55 | 3.45       | 200.49     | 2.39           |
| 2017/02/07 13:10 | 3.54       | 207.78     | 2.39           |
| 2017/02/07 13:25 | 3.55       | 206.94     | 2.37           |
| 2017/02/07 13:40 | 3.54       | 203.68     | 2.34           |
| 2017/02/07 13:55 | 3.54       | 203.68     | 2.34           |
| 2017/02/07 14:10 | 3.55       | 204.44     | 2.34           |
| 2017/02/07 14:25 | 3.58       | 209.37     | 2.37           |
| 2017/02/07 14:40 | 3.61       | 217.78     | 2.44           |
| 2017/02/07 14:55 | 3.61       | 217.78     | 2.44           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 15:10 | 3.63       | 219.44     | 2.44           |
| 2017/02/07 15:25 | 3.63       | 220.28     | 2.45           |
| 2017/02/07 15:40 | 3.63       | 220.28     | 2.45           |
| 2017/02/07 15:55 | 3.50       | 216.32     | 2.53           |
| 2017/02/07 16:10 | 3.36       | 231.11     | 2.86           |
| 2017/02/07 16:25 | 3.34       | 229.65     | 2.86           |
| 2017/02/07 16:40 | 3.34       | 229.65     | 2.86           |
| 2017/02/07 16:55 | 3.36       | 230.97     | 2.86           |
| 2017/02/07 17:10 | 3.37       | 232.36     | 2.86           |
| 2017/02/07 17:25 | 3.41       | 231.60     | 2.80           |
| 2017/02/07 17:40 | 3.47       | 224.17     | 2.65           |
| 2017/02/07 17:55 | 3.51       | 227.99     | 2.65           |
| 2017/02/07 18:10 | 3.58       | 246.74     | 2.80           |
| 2017/02/07 18:25 | 3.64       | 252.08     | 2.80           |
| 2017/02/07 18:40 | 3.64       | 255.14     | 2.83           |
| 2017/02/07 18:55 | 3.83       | 274.17     | 2.83           |
| 2017/02/07 19:10 | 4.02       | 293.47     | 2.83           |
| 2017/02/07 19:25 | 4.07       | 312.57     | 2.97           |
| 2017/02/07 19:40 | 4.07       | 325.90     | 3.10           |
| 2017/02/07 19:55 | 4.07       | 325.90     | 3.10           |
| 2017/02/07 20:10 | 4.08       | 327.43     | 3.10           |
| 2017/02/07 20:25 | 4.08       | 327.43     | 3.10           |
| 2017/02/07 20:40 | 4.04       | 313.96     | 3.01           |
| 2017/02/07 20:55 | 4.04       | 313.96     | 3.01           |
| 2017/02/07 21:10 | 4.02       | 323.26     | 3.12           |
| 2017/02/07 21:25 | 4.02       | 323.26     | 3.12           |
| 2017/02/07 21:40 | 3.98       | 308.05     | 3.01           |
| 2017/02/07 21:55 | 3.90       | 297.57     | 3.00           |
| 2017/02/07 22:10 | 3.90       | 297.57     | 3.00           |
| 2017/02/07 22:25 | 3.62       | 255.83     | 2.85           |
| 2017/02/07 22:40 | 3.48       | 239.86     | 2.82           |
| 2017/02/07 22:55 | 3.47       | 234.51     | 2.78           |
| 2017/02/07 23:10 | 3.25       | 201.25     | 2.61           |
| 2017/02/07 23:25 | 3.21       | 195.62     | 2.59           |
| 2017/02/07 23:40 | 3.07       | 179.93     | 2.53           |
| 2017/02/07 23:55 | 3.01       | 169.17     | 2.44           |
| 2017/02/08 00:10 | 2.69       | 136.94     | 2.32           |
| 2017/02/08 00:25 | 2.46       | 117.57     | 2.27           |
| 2017/02/08 00:40 | 2.26       | 104.31     | 2.26           |
| 2017/02/08 00:55 | 2.22       | 98.89      | 2.20           |
| 2017/02/08 01:10 | 2.16       | 93.54      | 2.16           |
| 2017/02/08 01:25 | 1.98       | 81.94      | 2.15           |
| 2017/02/08 01:40 | 1.96       | 80.28      | 2.15           |
| 2017/02/08 01:55 | 1.73       | 65.69      | 2.09           |
| 2017/02/08 02:10 | 1.69       | 62.22      | 2.05           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 02:25 | 1.68       | 62.64      | 2.09           |
| 2017/02/08 02:40 | 1.61       | 56.53      | 2.01           |
| 2017/02/08 02:55 | 1.61       | 55.62      | 1.97           |
| 2017/02/08 03:10 | 1.61       | 55.62      | 1.97           |
| 2017/02/08 03:25 | 1.61       | 59.86      | 2.13           |
| 2017/02/08 03:40 | 1.61       | 57.78      | 2.05           |
| 2017/02/08 03:55 | 1.62       | 60.62      | 2.13           |
| 2017/02/08 04:10 | 1.62       | 63.19      | 2.22           |
| 2017/02/08 04:25 | 1.78       | 72.08      | 2.22           |
| 2017/02/08 04:40 | 1.83       | 75.69      | 2.23           |
| 2017/02/08 04:55 | 1.87       | 78.75      | 2.24           |
| 2017/02/08 05:10 | 1.91       | 81.32      | 2.24           |
| 2017/02/08 05:25 | 2.04       | 89.03      | 2.24           |
| 2017/02/08 05:40 | 2.08       | 93.06      | 2.28           |
| 2017/02/08 05:55 | 2.19       | 104.44     | 2.37           |
| 2017/02/08 06:10 | 2.33       | 116.04     | 2.41           |
| 2017/02/08 06:25 | 2.82       | 161.39     | 2.56           |
| 2017/02/08 06:40 | 2.87       | 175.56     | 2.71           |
| 2017/02/08 06:55 | 3.00       | 195.00     | 2.83           |
| 2017/02/08 07:10 | 3.27       | 229.30     | 2.94           |
| 2017/02/08 07:25 | 3.76       | 291.53     | 3.09           |
| 2017/02/08 07:40 | 3.80       | 307.01     | 3.20           |
| 2017/02/08 07:55 | 4.43       | 409.17     | 3.46           |
| 2017/02/08 08:10 | 4.43       | 409.17     | 3.46           |
| 2017/02/08 08:25 | 4.43       | 409.17     | 3.46           |
| 2017/02/08 08:40 | 4.41       | 399.30     | 3.40           |
| 2017/02/08 08:55 | 4.09       | 337.71     | 3.18           |
| 2017/02/08 09:10 | 4.08       | 332.22     | 3.14           |
| 2017/02/08 09:25 | 4.08       | 332.22     | 3.14           |
| 2017/02/08 09:40 | 4.07       | 330.69     | 3.14           |
| 2017/02/08 09:55 | 4.05       | 315.76     | 3.02           |
| 2017/02/08 10:10 | 4.00       | 322.99     | 3.14           |
| 2017/02/08 10:25 | 4.00       | 323.33     | 3.15           |
| 2017/02/08 10:40 | 3.94       | 295.35     | 2.93           |
| 2017/02/08 10:55 | 3.93       | 293.89     | 2.93           |
| 2017/02/08 11:10 | 3.80       | 277.15     | 2.89           |
| 2017/02/08 11:25 | 3.77       | 273.05     | 2.87           |
| 2017/02/08 11:40 | 3.75       | 268.54     | 2.86           |
| 2017/02/08 11:55 | 3.71       | 264.44     | 2.86           |
| 2017/02/08 12:10 | 3.64       | 257.57     | 2.86           |
| 2017/02/08 12:25 | 3.64       | 251.94     | 2.79           |
| 2017/02/08 12:40 | 3.51       | 232.01     | 2.70           |
| 2017/02/08 12:55 | 3.47       | 227.01     | 2.69           |
| 2017/02/08 13:10 | 3.47       | 221.25     | 2.62           |
| 2017/02/08 13:25 | 3.47       | 221.25     | 2.62           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 13:40 | 3.47       | 221.25     | 2.62           |
| 2017/02/08 13:55 | 3.47       | 225.00     | 2.66           |
| 2017/02/08 14:10 | 3.47       | 225.07     | 2.66           |
| 2017/02/08 14:25 | 3.41       | 226.53     | 2.74           |
| 2017/02/08 14:40 | 3.41       | 226.53     | 2.74           |
| 2017/02/08 14:55 | 3.41       | 230.55     | 2.79           |
| 2017/02/08 15:10 | 3.41       | 228.19     | 2.76           |
| 2017/02/08 15:25 | 3.37       | 224.30     | 2.76           |
| 2017/02/08 15:40 | 3.34       | 215.07     | 2.68           |
| 2017/02/08 15:55 | 3.32       | 212.57     | 2.68           |
| 2017/02/08 16:10 | 3.29       | 210.14     | 2.68           |
| 2017/02/08 16:25 | 3.32       | 212.57     | 2.68           |
| 2017/02/08 16:40 | 3.29       | 210.14     | 2.68           |
| 2017/02/08 16:55 | 3.29       | 210.97     | 2.69           |
| 2017/02/08 17:10 | 3.46       | 234.72     | 2.79           |
| 2017/02/08 17:25 | 3.46       | 234.72     | 2.79           |
| 2017/02/08 17:40 | 3.46       | 230.62     | 2.75           |
| 2017/02/08 17:55 | 3.52       | 241.32     | 2.79           |
| 2017/02/08 18:10 | 3.65       | 264.65     | 2.92           |
| 2017/02/08 18:25 | 3.71       | 270.21     | 2.92           |
| 2017/02/08 18:40 | 3.75       | 274.44     | 2.92           |
| 2017/02/08 18:55 | 3.87       | 293.47     | 2.98           |
| 2017/02/08 19:10 | 3.90       | 290.00     | 2.92           |
| 2017/02/08 19:25 | 3.94       | 305.62     | 3.03           |
| 2017/02/08 19:40 | 4.01       | 299.93     | 2.91           |
| 2017/02/08 19:55 | 3.90       | 295.55     | 2.98           |
| 2017/02/08 20:10 | 3.98       | 304.30     | 2.98           |
| 2017/02/08 20:25 | 4.00       | 308.40     | 3.00           |
| 2017/02/08 20:40 | 4.00       | 305.76     | 2.98           |
| 2017/02/08 20:55 | 3.98       | 306.94     | 3.00           |
| 2017/02/08 21:10 | 3.98       | 306.94     | 3.00           |
| 2017/02/08 21:25 | 3.91       | 290.00     | 2.91           |
| 2017/02/08 21:40 | 3.89       | 286.46     | 2.90           |
| 2017/02/08 21:55 | 3.83       | 280.83     | 2.90           |
| 2017/02/08 22:10 | 3.73       | 271.04     | 2.90           |
| 2017/02/08 22:25 | 3.64       | 258.68     | 2.87           |
| 2017/02/08 22:40 | 3.59       | 242.85     | 2.74           |
| 2017/02/08 22:55 | 3.29       | 214.51     | 2.74           |
| 2017/02/08 23:10 | 3.23       | 207.50     | 2.71           |
| 2017/02/08 23:25 | 3.21       | 203.96     | 2.70           |
| 2017/02/08 23:40 | 3.05       | 171.67     | 2.43           |
| 2017/02/08 23:55 | 2.65       | 134.24     | 2.32           |
| 2017/02/09 00:10 | 2.61       | 126.81     | 2.24           |
| 2017/02/09 00:25 | 2.48       | 118.19     | 2.24           |
| 2017/02/09 00:40 | 2.44       | 112.71     | 2.19           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 00:55 | 2.23       | 99.24      | 2.19           |
| 2017/02/09 01:10 | 2.12       | 91.18      | 2.17           |
| 2017/02/09 01:25 | 2.01       | 86.11      | 2.21           |
| 2017/02/09 01:40 | 1.96       | 79.44      | 2.12           |
| 2017/02/09 01:55 | 1.93       | 77.78      | 2.12           |
| 2017/02/09 02:10 | 1.80       | 70.62      | 2.12           |
| 2017/02/09 02:25 | 1.80       | 70.28      | 2.11           |
| 2017/02/09 02:40 | 1.75       | 67.15      | 2.11           |
| 2017/02/09 02:55 | 1.73       | 66.39      | 2.11           |
| 2017/02/09 03:10 | 1.68       | 65.28      | 2.18           |
| 2017/02/09 03:25 | 1.68       | 63.33      | 2.11           |
| 2017/02/09 03:40 | 1.61       | 57.85      | 2.05           |
| 2017/02/09 03:55 | 1.61       | 57.85      | 2.05           |
| 2017/02/09 04:10 | 1.61       | 58.19      | 2.07           |
| 2017/02/09 04:25 | 1.65       | 60.42      | 2.07           |
| 2017/02/09 04:40 | 1.68       | 63.96      | 2.13           |
| 2017/02/09 04:55 | 1.78       | 70.90      | 2.18           |
| 2017/02/09 05:10 | 1.78       | 72.08      | 2.22           |
| 2017/02/09 05:25 | 1.87       | 78.96      | 2.25           |
| 2017/02/09 05:40 | 1.89       | 79.79      | 2.25           |
| 2017/02/09 05:55 | 2.15       | 98.06      | 2.29           |
| 2017/02/09 06:10 | 2.54       | 127.64     | 2.35           |
| 2017/02/09 06:25 | 2.71       | 150.76     | 2.53           |
| 2017/02/09 06:40 | 2.89       | 168.96     | 2.59           |
| 2017/02/09 06:55 | 3.27       | 216.04     | 2.77           |
| 2017/02/09 07:10 | 3.34       | 255.00     | 3.18           |
| 2017/02/09 07:25 | 3.86       | 326.04     | 3.33           |
| 2017/02/09 07:40 | 3.89       | 329.30     | 3.33           |
| 2017/02/09 07:55 | 4.12       | 365.55     | 3.41           |
| 2017/02/09 08:10 | 4.37       | 396.73     | 3.42           |
| 2017/02/09 08:25 | 4.37       | 396.73     | 3.42           |
| 2017/02/09 08:40 | 4.33       | 387.57     | 3.38           |
| 2017/02/09 08:55 | 4.33       | 391.94     | 3.42           |
| 2017/02/09 09:10 | 4.16       | 367.43     | 3.38           |
| 2017/02/09 09:25 | 4.07       | 351.87     | 3.34           |
| 2017/02/09 09:40 | 4.07       | 351.87     | 3.34           |
| 2017/02/09 09:55 | 4.02       | 346.94     | 3.34           |
| 2017/02/09 10:10 | 4.01       | 317.29     | 3.07           |
| 2017/02/09 10:25 | 3.91       | 306.80     | 3.07           |
| 2017/02/09 10:40 | 3.91       | 306.80     | 3.07           |
| 2017/02/09 10:55 | 3.87       | 302.29     | 3.07           |
| 2017/02/09 11:10 | 3.84       | 307.92     | 3.16           |
| 2017/02/09 11:25 | 3.84       | 309.30     | 3.18           |
| 2017/02/09 11:40 | 3.84       | 309.30     | 3.18           |
| 2017/02/09 11:55 | 3.80       | 304.65     | 3.18           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 12:10 | 3.84       | 305.55     | 3.14           |
| 2017/02/09 12:25 | 3.84       | 291.32     | 2.99           |
| 2017/02/09 12:40 | 3.76       | 271.80     | 2.88           |
| 2017/02/09 12:55 | 3.76       | 271.80     | 2.88           |
| 2017/02/09 13:10 | 3.76       | 270.62     | 2.86           |
| 2017/02/09 13:25 | 3.76       | 271.80     | 2.88           |
| 2017/02/09 13:40 | 3.76       | 270.62     | 2.86           |
| 2017/02/09 13:55 | 3.65       | 259.65     | 2.86           |
| 2017/02/09 14:10 | 3.65       | 259.65     | 2.86           |
| 2017/02/09 14:25 | 3.55       | 248.89     | 2.85           |
| 2017/02/09 14:40 | 3.52       | 245.00     | 2.84           |
| 2017/02/09 14:55 | 3.52       | 246.18     | 2.85           |
| 2017/02/09 15:10 | 3.44       | 238.12     | 2.85           |
| 2017/02/09 15:25 | 3.44       | 238.12     | 2.85           |
| 2017/02/09 15:40 | 3.36       | 212.92     | 2.64           |
| 2017/02/09 15:55 | 3.50       | 243.54     | 2.85           |
| 2017/02/09 16:10 | 3.46       | 216.94     | 2.58           |
| 2017/02/09 16:25 | 3.46       | 216.94     | 2.58           |
| 2017/02/09 16:40 | 3.46       | 216.94     | 2.58           |
| 2017/02/09 16:55 | 3.47       | 217.08     | 2.57           |
| 2017/02/09 17:10 | 3.47       | 217.08     | 2.57           |
| 2017/02/09 17:25 | 3.51       | 226.25     | 2.63           |
| 2017/02/09 17:40 | 3.65       | 267.99     | 2.96           |
| 2017/02/09 17:55 | 3.65       | 268.12     | 2.96           |
| 2017/02/09 18:10 | 3.72       | 276.32     | 2.97           |
| 2017/02/09 18:25 | 3.65       | 269.17     | 2.97           |
| 2017/02/09 18:40 | 3.75       | 280.76     | 2.99           |
| 2017/02/09 18:55 | 3.86       | 303.19     | 3.10           |
| 2017/02/09 19:10 | 3.86       | 303.19     | 3.10           |
| 2017/02/09 19:25 | 3.94       | 312.22     | 3.10           |
| 2017/02/09 19:40 | 3.96       | 319.44     | 3.15           |
| 2017/02/09 19:55 | 3.96       | 319.44     | 3.15           |
| 2017/02/09 20:10 | 3.96       | 322.43     | 3.18           |
| 2017/02/09 20:25 | 3.96       | 322.43     | 3.18           |
| 2017/02/09 20:40 | 3.96       | 315.62     | 3.12           |
| 2017/02/09 20:55 | 3.96       | 292.92     | 2.89           |
| 2017/02/09 21:10 | 3.94       | 314.10     | 3.12           |
| 2017/02/09 21:25 | 3.93       | 312.57     | 3.12           |
| 2017/02/09 21:40 | 3.86       | 305.00     | 3.12           |
| 2017/02/09 21:55 | 3.79       | 279.79     | 2.93           |
| 2017/02/09 22:10 | 3.77       | 278.40     | 2.93           |
| 2017/02/09 22:25 | 3.64       | 256.67     | 2.85           |
| 2017/02/09 22:40 | 3.62       | 248.05     | 2.76           |
| 2017/02/09 22:55 | 3.27       | 214.79     | 2.76           |
| 2017/02/09 23:10 | 3.19       | 188.05     | 2.50           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 23:25 | 3.11       | 175.42     | 2.42           |
| 2017/02/09 23:40 | 2.97       | 161.39     | 2.38           |
| 2017/02/09 23:55 | 2.89       | 150.97     | 2.31           |
| 2017/02/10 00:10 | 2.75       | 140.00     | 2.30           |
| 2017/02/10 00:25 | 2.51       | 123.19     | 2.30           |
| 2017/02/10 00:40 | 2.33       | 109.44     | 2.27           |
| 2017/02/10 00:55 | 2.18       | 100.49     | 2.30           |
| 2017/02/10 01:10 | 2.08       | 92.99      | 2.27           |
| 2017/02/10 01:25 | 2.03       | 89.37      | 2.27           |
| 2017/02/10 01:40 | 1.87       | 76.04      | 2.17           |
| 2017/02/10 01:55 | 1.83       | 73.47      | 2.16           |
| 2017/02/10 02:10 | 1.78       | 70.14      | 2.16           |
| 2017/02/10 02:25 | 1.71       | 65.21      | 2.13           |
| 2017/02/10 02:40 | 1.69       | 64.44      | 2.13           |
| 2017/02/10 02:55 | 1.69       | 63.89      | 2.11           |
| 2017/02/10 03:10 | 1.62       | 60.62      | 2.13           |
| 2017/02/10 03:25 | 1.59       | 59.17      | 2.13           |
| 2017/02/10 03:40 | 1.58       | 56.53      | 2.06           |
| 2017/02/10 03:55 | 1.58       | 56.32      | 2.05           |
| 2017/02/10 04:10 | 1.58       | 56.32      | 2.05           |
| 2017/02/10 04:25 | 1.59       | 57.01      | 2.05           |
| 2017/02/10 04:40 | 1.65       | 60.14      | 2.06           |
| 2017/02/10 04:55 | 1.71       | 65.56      | 2.14           |
| 2017/02/10 05:10 | 1.75       | 67.92      | 2.14           |
| 2017/02/10 05:25 | 1.86       | 74.86      | 2.16           |
| 2017/02/10 05:40 | 1.93       | 78.96      | 2.16           |
| 2017/02/10 05:55 | 2.01       | 91.81      | 2.36           |
| 2017/02/10 06:10 | 2.23       | 110.07     | 2.43           |
| 2017/02/10 06:25 | 2.47       | 135.62     | 2.59           |
| 2017/02/10 06:40 | 2.57       | 145.49     | 2.63           |
| 2017/02/10 06:55 | 2.97       | 192.29     | 2.83           |
| 2017/02/10 07:10 | 3.18       | 225.69     | 3.02           |
| 2017/02/10 07:25 | 3.77       | 286.80     | 3.02           |
| 2017/02/10 07:40 | 4.12       | 323.68     | 3.02           |
| 2017/02/10 07:55 | 4.29       | 371.11     | 3.28           |
| 2017/02/10 08:10 | 4.29       | 371.11     | 3.28           |
| 2017/02/10 08:25 | 4.29       | 379.10     | 3.35           |
| 2017/02/10 08:40 | 4.21       | 378.68     | 3.44           |
| 2017/02/10 08:55 | 4.21       | 383.05     | 3.48           |
| 2017/02/10 09:10 | 4.21       | 383.05     | 3.48           |
| 2017/02/10 09:25 | 4.21       | 378.68     | 3.44           |
| 2017/02/10 09:40 | 4.19       | 361.25     | 3.29           |
| 2017/02/10 09:55 | 4.19       | 352.01     | 3.21           |
| 2017/02/10 10:10 | 4.18       | 350.42     | 3.21           |
| 2017/02/10 10:25 | 4.04       | 330.00     | 3.17           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 10:40 | 4.04       | 329.72     | 3.16           |
| 2017/02/10 10:55 | 3.97       | 320.42     | 3.15           |
| 2017/02/10 11:10 | 3.96       | 318.82     | 3.15           |
| 2017/02/10 11:25 | 3.87       | 309.65     | 3.15           |
| 2017/02/10 11:40 | 3.87       | 309.65     | 3.15           |
| 2017/02/10 11:55 | 3.97       | 325.49     | 3.20           |
| 2017/02/10 12:10 | 3.86       | 313.05     | 3.20           |
| 2017/02/10 12:25 | 3.86       | 313.05     | 3.20           |
| 2017/02/10 12:40 | 3.86       | 303.61     | 3.10           |
| 2017/02/10 12:55 | 3.76       | 281.32     | 2.98           |
| 2017/02/10 13:10 | 3.76       | 280.00     | 2.96           |
| 2017/02/10 13:25 | 3.76       | 272.85     | 2.89           |
| 2017/02/10 13:40 | 3.71       | 267.29     | 2.89           |
| 2017/02/10 13:55 | 3.68       | 255.14     | 2.78           |
| 2017/02/10 14:10 | 3.68       | 264.51     | 2.89           |
| 2017/02/10 14:25 | 3.65       | 261.74     | 2.89           |
| 2017/02/10 14:40 | 3.62       | 258.40     | 2.88           |
| 2017/02/10 14:55 | 3.61       | 241.11     | 2.70           |
| 2017/02/10 15:10 | 3.58       | 238.54     | 2.70           |
| 2017/02/10 15:25 | 3.58       | 238.54     | 2.70           |
| 2017/02/10 15:40 | 3.58       | 238.54     | 2.70           |
| 2017/02/10 15:55 | 3.58       | 249.86     | 2.83           |
| 2017/02/10 16:10 | 3.59       | 266.39     | 3.00           |
| 2017/02/10 16:25 | 3.69       | 276.39     | 3.00           |
| 2017/02/10 16:40 | 3.69       | 279.93     | 3.04           |
| 2017/02/10 16:55 | 3.68       | 280.83     | 3.07           |
| 2017/02/10 17:10 | 3.69       | 282.29     | 3.07           |
| 2017/02/10 17:25 | 3.68       | 281.67     | 3.07           |
| 2017/02/10 17:40 | 3.68       | 285.49     | 3.12           |
| 2017/02/10 17:55 | 3.73       | 297.71     | 3.18           |
| 2017/02/10 18:10 | 3.73       | 297.71     | 3.18           |
| 2017/02/10 18:25 | 3.68       | 291.87     | 3.19           |
| 2017/02/10 18:40 | 3.73       | 299.17     | 3.20           |
| 2017/02/10 18:55 | 3.73       | 306.60     | 3.28           |
| 2017/02/10 19:10 | 4.14       | 363.89     | 3.38           |
| 2017/02/10 19:25 | 4.25       | 377.29     | 3.38           |
| 2017/02/10 19:40 | 4.25       | 377.29     | 3.38           |
| 2017/02/10 19:55 | 4.25       | 356.04     | 3.19           |
| 2017/02/10 20:10 | 4.14       | 343.40     | 3.19           |
| 2017/02/10 20:25 | 4.07       | 335.35     | 3.19           |
| 2017/02/10 20:40 | 4.00       | 327.57     | 3.19           |
| 2017/02/10 20:55 | 3.97       | 324.44     | 3.19           |
| 2017/02/10 21:10 | 3.87       | 313.54     | 3.19           |
| 2017/02/10 21:25 | 3.77       | 285.35     | 3.00           |
| 2017/02/10 21:40 | 3.69       | 276.39     | 3.00           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 21:55 | 3.61       | 261.67     | 2.93           |
| 2017/02/10 22:10 | 3.39       | 239.51     | 2.93           |
| 2017/02/10 22:25 | 3.36       | 215.69     | 2.67           |
| 2017/02/10 22:40 | 3.11       | 188.12     | 2.60           |
| 2017/02/10 22:55 | 3.11       | 180.83     | 2.50           |
| 2017/02/10 23:10 | 3.05       | 173.33     | 2.45           |
| 2017/02/10 23:25 | 3.05       | 173.33     | 2.45           |
| 2017/02/10 23:40 | 2.82       | 146.67     | 2.33           |
| 2017/02/10 23:55 | 2.82       | 143.12     | 2.27           |
| 2017/02/11 00:10 | 2.71       | 135.21     | 2.27           |
| 2017/02/11 00:25 | 2.69       | 134.24     | 2.27           |
| 2017/02/11 00:40 | 2.50       | 120.62     | 2.27           |
| 2017/02/11 00:55 | 2.43       | 115.83     | 2.27           |
| 2017/02/11 01:10 | 2.29       | 102.57     | 2.19           |
| 2017/02/11 01:25 | 2.29       | 101.11     | 2.16           |
| 2017/02/11 01:40 | 1.93       | 78.40      | 2.14           |
| 2017/02/11 01:55 | 1.80       | 69.51      | 2.09           |
| 2017/02/11 02:10 | 1.78       | 67.99      | 2.09           |
| 2017/02/11 02:25 | 1.72       | 64.93      | 2.09           |
| 2017/02/11 02:40 | 1.72       | 65.56      | 2.11           |
| 2017/02/11 02:55 | 1.69       | 64.72      | 2.13           |
| 2017/02/11 03:10 | 1.69       | 64.72      | 2.13           |
| 2017/02/11 03:25 | 1.66       | 63.19      | 2.13           |
| 2017/02/11 03:40 | 1.66       | 61.60      | 2.08           |
| 2017/02/11 03:55 | 1.65       | 59.37      | 2.03           |
| 2017/02/11 04:10 | 1.62       | 57.01      | 2.00           |
| 2017/02/11 04:25 | 1.59       | 56.53      | 2.03           |
| 2017/02/11 04:40 | 1.59       | 55.69      | 2.00           |
| 2017/02/11 04:55 | 1.64       | 57.85      | 2.00           |
| 2017/02/11 05:10 | 1.64       | 57.85      | 2.00           |
| 2017/02/11 05:25 | 1.69       | 61.87      | 2.04           |
| 2017/02/11 05:40 | 1.75       | 68.26      | 2.15           |
| 2017/02/11 05:55 | 1.82       | 73.82      | 2.20           |
| 2017/02/11 06:10 | 1.93       | 80.49      | 2.20           |
| 2017/02/11 06:25 | 2.00       | 84.72      | 2.20           |
| 2017/02/11 06:40 | 2.04       | 89.37      | 2.25           |
| 2017/02/11 06:55 | 2.21       | 106.81     | 2.40           |
| 2017/02/11 07:10 | 2.26       | 110.69     | 2.40           |
| 2017/02/11 07:25 | 2.59       | 136.60     | 2.44           |
| 2017/02/11 07:40 | 2.71       | 145.00     | 2.44           |
| 2017/02/11 07:55 | 3.02       | 177.29     | 2.54           |
| 2017/02/11 08:10 | 3.40       | 209.44     | 2.55           |
| 2017/02/11 08:25 | 3.71       | 259.65     | 2.80           |
| 2017/02/11 08:40 | 3.79       | 282.01     | 2.95           |
| 2017/02/11 08:55 | 3.96       | 300.28     | 2.96           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 09:10 | 4.05       | 334.10     | 3.19           |
| 2017/02/11 09:25 | 4.09       | 356.67     | 3.36           |
| 2017/02/11 09:40 | 4.29       | 379.93     | 3.36           |
| 2017/02/11 09:55 | 4.30       | 382.98     | 3.37           |
| 2017/02/11 10:10 | 4.30       | 381.60     | 3.36           |
| 2017/02/11 10:25 | 4.34       | 388.05     | 3.37           |
| 2017/02/11 10:40 | 4.33       | 370.62     | 3.23           |
| 2017/02/11 10:55 | 4.33       | 370.62     | 3.23           |
| 2017/02/11 11:10 | 4.33       | 370.62     | 3.23           |
| 2017/02/11 11:25 | 4.33       | 370.62     | 3.23           |
| 2017/02/11 11:40 | 4.33       | 370.62     | 3.23           |
| 2017/02/11 11:55 | 4.33       | 390.69     | 3.41           |
| 2017/02/11 12:10 | 4.33       | 390.69     | 3.41           |
| 2017/02/11 12:25 | 4.23       | 367.01     | 3.30           |
| 2017/02/11 12:40 | 4.22       | 376.46     | 3.40           |
| 2017/02/11 12:55 | 4.16       | 358.82     | 3.30           |
| 2017/02/11 13:10 | 4.07       | 345.83     | 3.29           |
| 2017/02/11 13:25 | 4.07       | 345.83     | 3.29           |
| 2017/02/11 13:40 | 4.07       | 343.89     | 3.27           |
| 2017/02/11 13:55 | 4.07       | 341.60     | 3.25           |
| 2017/02/11 14:10 | 3.93       | 325.69     | 3.25           |
| 2017/02/11 14:25 | 3.93       | 315.49     | 3.14           |
| 2017/02/11 14:40 | 3.83       | 304.79     | 3.14           |
| 2017/02/11 14:55 | 3.83       | 303.75     | 3.13           |
| 2017/02/11 15:10 | 3.82       | 302.22     | 3.13           |
| 2017/02/11 15:25 | 3.82       | 292.50     | 3.03           |
| 2017/02/11 15:40 | 3.82       | 285.14     | 2.96           |
| 2017/02/11 15:55 | 3.76       | 276.74     | 2.93           |
| 2017/02/11 16:10 | 3.72       | 271.18     | 2.91           |
| 2017/02/11 16:25 | 3.72       | 271.18     | 2.91           |
| 2017/02/11 16:40 | 3.75       | 275.28     | 2.93           |
| 2017/02/11 16:55 | 3.75       | 278.89     | 2.97           |
| 2017/02/11 17:10 | 3.84       | 294.24     | 3.02           |
| 2017/02/11 17:25 | 3.84       | 294.58     | 3.02           |
| 2017/02/11 17:40 | 3.84       | 294.58     | 3.02           |
| 2017/02/11 17:55 | 3.96       | 306.32     | 3.02           |
| 2017/02/11 18:10 | 3.91       | 300.55     | 3.01           |
| 2017/02/11 18:25 | 3.82       | 275.90     | 2.86           |
| 2017/02/11 18:40 | 3.91       | 285.62     | 2.86           |
| 2017/02/11 18:55 | 3.94       | 288.40     | 2.86           |
| 2017/02/11 19:10 | 3.91       | 284.86     | 2.85           |
| 2017/02/11 19:25 | 3.76       | 269.65     | 2.85           |
| 2017/02/11 19:40 | 3.79       | 272.36     | 2.85           |
| 2017/02/11 19:55 | 3.73       | 266.87     | 2.85           |
| 2017/02/11 20:10 | 3.69       | 268.40     | 2.91           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 20:25 | 3.58       | 260.35     | 2.95           |
| 2017/02/11 20:40 | 3.58       | 260.35     | 2.95           |
| 2017/02/11 20:55 | 3.52       | 251.74     | 2.91           |
| 2017/02/11 21:10 | 3.51       | 218.12     | 2.54           |
| 2017/02/11 21:25 | 3.34       | 203.82     | 2.54           |
| 2017/02/11 21:40 | 3.34       | 203.82     | 2.54           |
| 2017/02/11 21:55 | 3.34       | 207.78     | 2.59           |
| 2017/02/11 22:10 | 3.34       | 208.96     | 2.60           |
| 2017/02/11 22:25 | 3.33       | 207.78     | 2.60           |
| 2017/02/11 22:40 | 3.26       | 200.55     | 2.59           |
| 2017/02/11 22:55 | 3.19       | 186.87     | 2.49           |
| 2017/02/11 23:10 | 3.16       | 179.86     | 2.42           |
| 2017/02/11 23:25 | 3.04       | 169.93     | 2.42           |
| 2017/02/11 23:40 | 3.02       | 160.76     | 2.31           |
| 2017/02/11 23:55 | 2.97       | 153.33     | 2.26           |
| 2017/02/12 00:10 | 2.84       | 144.24     | 2.26           |
| 2017/02/12 00:25 | 2.62       | 124.10     | 2.18           |
| 2017/02/12 00:40 | 2.62       | 124.10     | 2.18           |
| 2017/02/12 00:55 | 2.41       | 110.35     | 2.18           |
| 2017/02/12 01:10 | 2.32       | 104.03     | 2.18           |
| 2017/02/12 01:25 | 2.32       | 104.03     | 2.18           |
| 2017/02/12 01:40 | 2.11       | 90.90      | 2.18           |
| 2017/02/12 01:55 | 2.03       | 85.07      | 2.16           |
| 2017/02/12 02:10 | 2.00       | 81.87      | 2.12           |
| 2017/02/12 02:25 | 1.93       | 77.78      | 2.12           |
| 2017/02/12 02:40 | 1.87       | 69.86      | 1.99           |
| 2017/02/12 02:55 | 1.75       | 61.87      | 1.95           |
| 2017/02/12 03:10 | 1.71       | 59.72      | 1.95           |
| 2017/02/12 03:25 | 1.69       | 60.28      | 1.99           |
| 2017/02/12 03:40 | 1.69       | 63.61      | 2.10           |
| 2017/02/12 03:55 | 1.65       | 61.94      | 2.12           |
| 2017/02/12 04:10 | 1.62       | 60.42      | 2.12           |
| 2017/02/12 04:25 | 1.59       | 58.40      | 2.10           |
| 2017/02/12 04:40 | 1.59       | 56.25      | 2.02           |
| 2017/02/12 04:55 | 1.59       | 56.25      | 2.02           |
| 2017/02/12 05:10 | 1.64       | 58.40      | 2.02           |
| 2017/02/12 05:25 | 1.65       | 59.17      | 2.02           |
| 2017/02/12 05:40 | 1.66       | 59.86      | 2.02           |
| 2017/02/12 05:55 | 1.69       | 64.24      | 2.12           |
| 2017/02/12 06:10 | 1.69       | 64.24      | 2.12           |
| 2017/02/12 06:25 | 1.82       | 74.58      | 2.22           |
| 2017/02/12 06:40 | 1.86       | 77.08      | 2.22           |
| 2017/02/12 06:55 | 1.98       | 86.60      | 2.27           |
| 2017/02/12 07:10 | 2.23       | 103.40     | 2.28           |
| 2017/02/12 07:25 | 2.43       | 117.50     | 2.30           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 07:40 | 2.58       | 128.96     | 2.32           |
| 2017/02/12 07:55 | 2.97       | 180.07     | 2.65           |
| 2017/02/12 08:10 | 3.08       | 206.67     | 2.89           |
| 2017/02/12 08:25 | 3.50       | 256.04     | 3.00           |
| 2017/02/12 08:40 | 3.51       | 259.51     | 3.02           |
| 2017/02/12 08:55 | 3.68       | 276.80     | 3.02           |
| 2017/02/12 09:10 | 3.69       | 289.65     | 3.14           |
| 2017/02/12 09:25 | 3.94       | 317.01     | 3.14           |
| 2017/02/12 09:40 | 4.15       | 352.85     | 3.26           |
| 2017/02/12 09:55 | 4.19       | 367.57     | 3.35           |
| 2017/02/12 10:10 | 4.33       | 389.17     | 3.40           |
| 2017/02/12 10:25 | 4.34       | 385.90     | 3.35           |
| 2017/02/12 10:40 | 4.39       | 380.48     | 3.26           |
| 2017/02/12 10:55 | 4.40       | 397.64     | 3.40           |
| 2017/02/12 11:10 | 4.39       | 359.10     | 3.08           |
| 2017/02/12 11:25 | 4.34       | 354.51     | 3.08           |
| 2017/02/12 11:40 | 4.22       | 381.87     | 3.45           |
| 2017/02/12 11:55 | 4.19       | 378.47     | 3.45           |
| 2017/02/12 12:10 | 4.19       | 373.26     | 3.40           |
| 2017/02/12 12:25 | 4.16       | 369.93     | 3.40           |
| 2017/02/12 12:40 | 4.08       | 358.40     | 3.39           |
| 2017/02/12 12:55 | 4.08       | 350.83     | 3.32           |
| 2017/02/12 13:10 | 4.01       | 339.51     | 3.29           |
| 2017/02/12 13:25 | 4.01       | 339.51     | 3.29           |
| 2017/02/12 13:40 | 3.93       | 329.86     | 3.29           |
| 2017/02/12 13:55 | 3.89       | 324.93     | 3.29           |
| 2017/02/12 14:10 | 3.86       | 331.25     | 3.38           |
| 2017/02/12 14:25 | 3.86       | 331.25     | 3.38           |
| 2017/02/12 14:40 | 3.86       | 320.97     | 3.28           |
| 2017/02/12 14:55 | 3.86       | 306.18     | 3.13           |
| 2017/02/12 15:10 | 3.90       | 310.76     | 3.13           |
| 2017/02/12 15:25 | 3.90       | 310.62     | 3.13           |
| 2017/02/12 15:40 | 3.90       | 310.62     | 3.13           |
| 2017/02/12 15:55 | 3.90       | 310.62     | 3.13           |
| 2017/02/12 16:10 | 3.90       | 307.43     | 3.09           |
| 2017/02/12 16:25 | 3.90       | 307.43     | 3.09           |
| 2017/02/12 16:40 | 3.90       | 307.43     | 3.09           |
| 2017/02/12 16:55 | 3.94       | 311.94     | 3.09           |
| 2017/02/12 17:10 | 3.96       | 309.72     | 3.06           |
| 2017/02/12 17:25 | 3.96       | 316.87     | 3.13           |
| 2017/02/12 17:40 | 3.96       | 316.87     | 3.13           |
| 2017/02/12 17:55 | 3.97       | 318.40     | 3.13           |
| 2017/02/12 18:10 | 4.01       | 315.69     | 3.06           |
| 2017/02/12 18:25 | 4.01       | 314.30     | 3.04           |
| 2017/02/12 18:40 | 3.93       | 304.44     | 3.04           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 18:55 | 3.90       | 301.53     | 3.04           |
| 2017/02/12 19:10 | 3.90       | 301.53     | 3.04           |
| 2017/02/12 19:25 | 3.90       | 304.24     | 3.06           |
| 2017/02/12 19:40 | 3.90       | 321.94     | 3.24           |
| 2017/02/12 19:55 | 3.90       | 321.94     | 3.24           |
| 2017/02/12 20:10 | 3.82       | 295.28     | 3.06           |
| 2017/02/12 20:25 | 3.77       | 297.57     | 3.13           |
| 2017/02/12 20:40 | 3.75       | 283.33     | 3.01           |
| 2017/02/12 20:55 | 3.75       | 283.33     | 3.01           |
| 2017/02/12 21:10 | 3.73       | 281.87     | 3.01           |
| 2017/02/12 21:25 | 3.73       | 271.18     | 2.90           |
| 2017/02/12 21:40 | 3.66       | 261.87     | 2.87           |
| 2017/02/12 21:55 | 3.58       | 255.90     | 2.90           |
| 2017/02/12 22:10 | 3.46       | 237.08     | 2.82           |
| 2017/02/12 22:25 | 3.27       | 219.93     | 2.82           |
| 2017/02/12 22:40 | 3.23       | 210.97     | 2.76           |
| 2017/02/12 22:55 | 3.21       | 190.35     | 2.52           |
| 2017/02/12 23:10 | 3.07       | 177.01     | 2.49           |
| 2017/02/12 23:25 | 3.00       | 168.96     | 2.46           |
| 2017/02/12 23:40 | 2.75       | 145.62     | 2.39           |
| 2017/02/12 23:55 | 2.69       | 131.67     | 2.23           |
| 2017/02/13 00:10 | 2.68       | 130.69     | 2.23           |
| 2017/02/13 00:25 | 2.43       | 116.81     | 2.29           |
| 2017/02/13 00:40 | 2.29       | 107.36     | 2.29           |
| 2017/02/13 00:55 | 2.22       | 100.14     | 2.23           |
| 2017/02/13 01:10 | 2.04       | 88.68      | 2.23           |
| 2017/02/13 01:25 | 2.03       | 86.67      | 2.20           |
| 2017/02/13 01:40 | 1.93       | 79.65      | 2.17           |
| 2017/02/13 01:55 | 1.82       | 72.92      | 2.17           |
| 2017/02/13 02:10 | 1.79       | 69.17      | 2.10           |
| 2017/02/13 02:25 | 1.69       | 62.01      | 2.05           |
| 2017/02/13 02:40 | 1.59       | 56.87      | 2.05           |
| 2017/02/13 02:55 | 1.58       | 55.90      | 2.04           |
| 2017/02/13 03:10 | 1.55       | 54.51      | 2.04           |
| 2017/02/13 03:25 | 1.55       | 55.07      | 2.06           |
| 2017/02/13 03:40 | 1.57       | 56.74      | 2.09           |
| 2017/02/13 03:55 | 1.57       | 57.43      | 2.12           |
| 2017/02/13 04:10 | 1.57       | 58.12      | 2.15           |
| 2017/02/13 04:25 | 1.59       | 61.04      | 2.19           |
| 2017/02/13 04:40 | 1.64       | 63.33      | 2.19           |
| 2017/02/13 04:55 | 1.65       | 64.24      | 2.20           |
| 2017/02/13 05:10 | 1.72       | 68.26      | 2.20           |
| 2017/02/13 05:25 | 1.72       | 69.44      | 2.24           |
| 2017/02/13 05:40 | 1.86       | 79.58      | 2.29           |
| 2017/02/13 05:55 | 1.98       | 88.12      | 2.31           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 06:10 | 2.15       | 100.90     | 2.35           |
| 2017/02/13 06:25 | 2.40       | 122.29     | 2.44           |
| 2017/02/13 06:40 | 2.78       | 153.89     | 2.49           |
| 2017/02/13 06:55 | 3.05       | 195.21     | 2.76           |
| 2017/02/13 07:10 | 3.51       | 240.42     | 2.80           |
| 2017/02/13 07:25 | 3.52       | 253.96     | 2.94           |
| 2017/02/13 07:40 | 3.97       | 334.37     | 3.29           |
| 2017/02/13 07:55 | 3.98       | 335.97     | 3.29           |
| 2017/02/13 08:10 | 4.19       | 369.79     | 3.37           |
| 2017/02/13 08:25 | 4.19       | 362.43     | 3.31           |
| 2017/02/13 08:40 | 4.19       | 362.43     | 3.31           |
| 2017/02/13 08:55 | 4.19       | 361.39     | 3.30           |
| 2017/02/13 09:10 | 4.09       | 350.00     | 3.30           |
| 2017/02/13 09:25 | 4.08       | 348.40     | 3.30           |
| 2017/02/13 09:40 | 4.08       | 348.40     | 3.30           |
| 2017/02/13 09:55 | 4.08       | 342.43     | 3.24           |
| 2017/02/13 10:10 | 4.00       | 348.26     | 3.39           |
| 2017/02/13 10:25 | 4.00       | 348.26     | 3.39           |
| 2017/02/13 10:40 | 4.11       | 364.51     | 3.42           |
| 2017/02/13 10:55 | 4.11       | 343.47     | 3.22           |
| 2017/02/13 11:10 | 4.00       | 341.32     | 3.32           |
| 2017/02/13 11:25 | 3.93       | 322.99     | 3.22           |
| 2017/02/13 11:40 | 3.79       | 307.36     | 3.22           |
| 2017/02/13 11:55 | 3.79       | 307.36     | 3.22           |
| 2017/02/13 12:10 | 3.79       | 285.07     | 2.99           |
| 2017/02/13 12:25 | 3.79       | 269.65     | 2.82           |
| 2017/02/13 12:40 | 3.79       | 269.65     | 2.82           |
| 2017/02/13 12:55 | 3.79       | 272.71     | 2.86           |
| 2017/02/13 13:10 | 3.71       | 257.92     | 2.79           |
| 2017/02/13 13:25 | 3.68       | 254.58     | 2.78           |
| 2017/02/13 13:40 | 3.68       | 257.08     | 2.81           |
| 2017/02/13 13:55 | 3.51       | 241.04     | 2.81           |
| 2017/02/13 14:10 | 3.50       | 237.36     | 2.78           |
| 2017/02/13 14:25 | 3.47       | 237.08     | 2.81           |
| 2017/02/13 14:40 | 3.50       | 239.72     | 2.81           |
| 2017/02/13 14:55 | 3.51       | 238.68     | 2.78           |
| 2017/02/13 15:10 | 3.47       | 234.79     | 2.78           |
| 2017/02/13 15:25 | 3.52       | 247.92     | 2.87           |
| 2017/02/13 15:40 | 3.52       | 241.18     | 2.79           |
| 2017/02/13 15:55 | 3.52       | 241.18     | 2.79           |
| 2017/02/13 16:10 | 3.52       | 241.18     | 2.79           |
| 2017/02/13 16:25 | 3.52       | 241.18     | 2.79           |
| 2017/02/13 16:40 | 3.46       | 229.58     | 2.73           |
| 2017/02/13 16:55 | 3.46       | 226.18     | 2.69           |
| 2017/02/13 17:10 | 3.46       | 229.58     | 2.73           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 17:25 | 3.46       | 236.25     | 2.81           |
| 2017/02/13 17:40 | 3.47       | 240.42     | 2.85           |
| 2017/02/13 17:55 | 3.47       | 240.42     | 2.85           |
| 2017/02/13 18:10 | 3.54       | 257.78     | 2.97           |
| 2017/02/13 18:25 | 3.64       | 267.64     | 2.97           |
| 2017/02/13 18:40 | 3.75       | 282.29     | 3.00           |
| 2017/02/13 18:55 | 3.86       | 293.96     | 3.00           |
| 2017/02/13 19:10 | 3.90       | 298.33     | 3.00           |
| 2017/02/13 19:25 | 3.91       | 308.75     | 3.09           |
| 2017/02/13 19:40 | 4.00       | 317.85     | 3.09           |
| 2017/02/13 19:55 | 4.02       | 303.89     | 2.93           |
| 2017/02/13 20:10 | 4.05       | 326.46     | 3.12           |
| 2017/02/13 20:25 | 4.05       | 326.46     | 3.12           |
| 2017/02/13 20:40 | 4.05       | 326.46     | 3.12           |
| 2017/02/13 20:55 | 4.11       | 332.57     | 3.12           |
| 2017/02/13 21:10 | 4.14       | 336.46     | 3.13           |
| 2017/02/13 21:25 | 4.05       | 327.22     | 3.13           |
| 2017/02/13 21:40 | 4.05       | 327.22     | 3.13           |
| 2017/02/13 21:55 | 3.75       | 276.18     | 2.94           |
| 2017/02/13 22:10 | 3.68       | 265.62     | 2.90           |
| 2017/02/13 22:25 | 3.66       | 264.24     | 2.90           |
| 2017/02/13 22:40 | 3.59       | 251.74     | 2.84           |
| 2017/02/13 22:55 | 3.26       | 203.47     | 2.63           |
| 2017/02/13 23:10 | 3.19       | 194.37     | 2.58           |
| 2017/02/13 23:25 | 3.09       | 179.93     | 2.50           |
| 2017/02/13 23:40 | 2.96       | 168.47     | 2.50           |
| 2017/02/13 23:55 | 2.82       | 156.04     | 2.48           |
| 2017/02/14 00:10 | 2.73       | 144.51     | 2.39           |
| 2017/02/14 00:25 | 2.48       | 123.75     | 2.35           |
| 2017/02/14 00:40 | 2.29       | 105.56     | 2.25           |
| 2017/02/14 00:55 | 2.19       | 95.14      | 2.16           |
| 2017/02/14 01:10 | 1.98       | 81.87      | 2.15           |
| 2017/02/14 01:25 | 1.96       | 80.21      | 2.15           |
| 2017/02/14 01:40 | 1.86       | 74.93      | 2.16           |
| 2017/02/14 01:55 | 1.86       | 74.93      | 2.16           |
| 2017/02/14 02:10 | 1.82       | 72.50      | 2.16           |
| 2017/02/14 02:25 | 1.76       | 69.93      | 2.18           |
| 2017/02/14 02:40 | 1.66       | 64.44      | 2.18           |
| 2017/02/14 02:55 | 1.66       | 61.74      | 2.09           |
| 2017/02/14 03:10 | 1.66       | 61.74      | 2.09           |
| 2017/02/14 03:25 | 1.55       | 55.83      | 2.09           |
| 2017/02/14 03:40 | 1.55       | 55.83      | 2.09           |
| 2017/02/14 03:55 | 1.55       | 56.74      | 2.12           |
| 2017/02/14 04:10 | 1.57       | 58.06      | 2.14           |
| 2017/02/14 04:25 | 1.61       | 59.65      | 2.12           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 04:40 | 1.62       | 60.42      | 2.12           |
| 2017/02/14 04:55 | 1.66       | 63.40      | 2.14           |
| 2017/02/14 05:10 | 1.69       | 63.40      | 2.09           |
| 2017/02/14 05:25 | 1.76       | 67.22      | 2.09           |
| 2017/02/14 05:40 | 1.82       | 75.69      | 2.25           |
| 2017/02/14 05:55 | 2.05       | 91.04      | 2.27           |
| 2017/02/14 06:10 | 2.57       | 128.33     | 2.32           |
| 2017/02/14 06:25 | 2.64       | 133.96     | 2.33           |
| 2017/02/14 06:40 | 2.89       | 155.90     | 2.39           |
| 2017/02/14 06:55 | 3.15       | 220.62     | 2.99           |
| 2017/02/14 07:10 | 3.39       | 244.17     | 2.99           |
| 2017/02/14 07:25 | 4.00       | 335.69     | 3.27           |
| 2017/02/14 07:40 | 4.15       | 379.10     | 3.51           |
| 2017/02/14 07:55 | 4.33       | 401.73     | 3.51           |
| 2017/02/14 08:10 | 4.33       | 380.76     | 3.32           |
| 2017/02/14 08:25 | 4.33       | 380.76     | 3.32           |
| 2017/02/14 08:40 | 4.33       | 380.76     | 3.32           |
| 2017/02/14 08:55 | 4.27       | 374.17     | 3.32           |
| 2017/02/14 09:10 | 4.19       | 368.61     | 3.36           |
| 2017/02/14 09:25 | 4.19       | 368.61     | 3.36           |
| 2017/02/14 09:40 | 4.18       | 366.94     | 3.36           |
| 2017/02/14 09:55 | 4.15       | 344.79     | 3.19           |
| 2017/02/14 10:10 | 4.09       | 326.32     | 3.07           |
| 2017/02/14 10:25 | 4.04       | 312.64     | 3.00           |
| 2017/02/14 10:40 | 3.97       | 305.35     | 3.00           |
| 2017/02/14 10:55 | 3.97       | 305.35     | 3.00           |
| 2017/02/14 11:10 | 3.96       | 311.25     | 3.07           |
| 2017/02/14 11:25 | 3.91       | 296.25     | 2.97           |
| 2017/02/14 11:40 | 3.84       | 289.03     | 2.97           |
| 2017/02/14 11:55 | 3.91       | 308.75     | 3.09           |
| 2017/02/14 12:10 | 3.84       | 289.03     | 2.97           |
| 2017/02/14 12:25 | 3.77       | 281.87     | 2.97           |
| 2017/02/14 12:40 | 3.77       | 283.19     | 2.98           |
| 2017/02/14 12:55 | 3.73       | 278.89     | 2.98           |
| 2017/02/14 13:10 | 3.73       | 278.89     | 2.98           |
| 2017/02/14 13:25 | 3.73       | 281.32     | 3.01           |
| 2017/02/14 13:40 | 3.73       | 281.32     | 3.01           |
| 2017/02/14 13:55 | 3.68       | 270.49     | 2.95           |
| 2017/02/14 14:10 | 3.54       | 256.46     | 2.95           |
| 2017/02/14 14:25 | 3.51       | 247.22     | 2.88           |
| 2017/02/14 14:40 | 3.51       | 242.64     | 2.82           |
| 2017/02/14 14:55 | 3.46       | 240.14     | 2.86           |
| 2017/02/14 15:10 | 3.43       | 234.65     | 2.82           |
| 2017/02/14 15:25 | 3.43       | 219.58     | 2.64           |
| 2017/02/14 15:40 | 3.41       | 218.33     | 2.64           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 15:55 | 3.41       | 218.33     | 2.64           |
| 2017/02/14 16:10 | 3.39       | 215.83     | 2.64           |
| 2017/02/14 16:25 | 3.41       | 212.15     | 2.57           |
| 2017/02/14 16:40 | 3.48       | 234.17     | 2.76           |
| 2017/02/14 16:55 | 3.48       | 236.46     | 2.78           |
| 2017/02/14 17:10 | 3.55       | 252.08     | 2.89           |
| 2017/02/14 17:25 | 3.55       | 256.25     | 2.93           |
| 2017/02/14 17:40 | 3.55       | 256.25     | 2.93           |
| 2017/02/14 17:55 | 3.46       | 244.37     | 2.91           |
| 2017/02/14 18:10 | 3.46       | 244.37     | 2.91           |
| 2017/02/14 18:25 | 3.46       | 244.37     | 2.91           |
| 2017/02/14 18:40 | 3.46       | 232.57     | 2.77           |
| 2017/02/14 18:55 | 3.82       | 266.94     | 2.77           |
| 2017/02/14 19:10 | 3.89       | 275.55     | 2.79           |
| 2017/02/14 19:25 | 3.93       | 299.72     | 2.99           |
| 2017/02/14 19:40 | 3.93       | 279.65     | 2.79           |
| 2017/02/14 19:55 | 3.93       | 299.72     | 2.99           |
| 2017/02/14 20:10 | 3.93       | 309.37     | 3.08           |
| 2017/02/14 20:25 | 3.93       | 306.46     | 3.05           |
| 2017/02/14 20:40 | 3.93       | 312.85     | 3.12           |
| 2017/02/14 20:55 | 3.93       | 312.85     | 3.12           |
| 2017/02/14 21:10 | 3.89       | 302.57     | 3.06           |
| 2017/02/14 21:25 | 3.79       | 291.60     | 3.05           |
| 2017/02/14 21:40 | 3.79       | 281.60     | 2.95           |
| 2017/02/14 21:55 | 3.55       | 246.53     | 2.82           |
| 2017/02/14 22:10 | 3.51       | 234.93     | 2.73           |
| 2017/02/14 22:25 | 3.47       | 229.24     | 2.71           |
| 2017/02/14 22:40 | 3.30       | 211.46     | 2.68           |
| 2017/02/14 22:55 | 3.26       | 206.94     | 2.67           |
| 2017/02/14 23:10 | 3.22       | 203.26     | 2.67           |
| 2017/02/14 23:25 | 3.09       | 186.87     | 2.60           |
| 2017/02/14 23:40 | 2.82       | 155.56     | 2.47           |
| 2017/02/14 23:55 | 2.59       | 134.65     | 2.40           |
| 2017/02/15 00:10 | 2.58       | 129.44     | 2.33           |
| 2017/02/15 00:25 | 2.47       | 116.81     | 2.23           |
| 2017/02/15 00:40 | 2.39       | 111.04     | 2.23           |
| 2017/02/15 00:55 | 2.18       | 97.08      | 2.22           |
| 2017/02/15 01:10 | 2.08       | 90.35      | 2.21           |
| 2017/02/15 01:25 | 1.89       | 76.53      | 2.16           |
| 2017/02/15 01:40 | 1.84       | 73.26      | 2.13           |
| 2017/02/15 01:55 | 1.78       | 69.31      | 2.13           |
| 2017/02/15 02:10 | 1.69       | 65.35      | 2.16           |
| 2017/02/15 02:25 | 1.68       | 65.00      | 2.17           |
| 2017/02/15 02:40 | 1.66       | 64.24      | 2.17           |
| 2017/02/15 02:55 | 1.62       | 61.94      | 2.17           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 03:10 | 1.62       | 61.94      | 2.17           |
| 2017/02/15 03:25 | 1.59       | 60.35      | 2.17           |
| 2017/02/15 03:40 | 1.59       | 60.14      | 2.16           |
| 2017/02/15 03:55 | 1.55       | 57.85      | 2.16           |
| 2017/02/15 04:10 | 1.55       | 58.06      | 2.17           |
| 2017/02/15 04:25 | 1.61       | 60.90      | 2.16           |
| 2017/02/15 04:40 | 1.62       | 60.42      | 2.12           |
| 2017/02/15 04:55 | 1.64       | 61.18      | 2.12           |
| 2017/02/15 05:10 | 1.73       | 68.68      | 2.19           |
| 2017/02/15 05:25 | 1.78       | 70.62      | 2.17           |
| 2017/02/15 05:40 | 1.87       | 80.28      | 2.29           |
| 2017/02/15 05:55 | 2.07       | 93.33      | 2.30           |
| 2017/02/15 06:10 | 2.55       | 133.47     | 2.44           |
| 2017/02/15 06:25 | 2.73       | 155.00     | 2.57           |
| 2017/02/15 06:40 | 2.82       | 165.76     | 2.63           |
| 2017/02/15 06:55 | 3.18       | 213.12     | 2.85           |
| 2017/02/15 07:10 | 3.47       | 266.46     | 3.15           |
| 2017/02/15 07:25 | 3.76       | 310.62     | 3.29           |
| 2017/02/15 07:40 | 4.00       | 362.98     | 3.53           |
| 2017/02/15 07:55 | 4.39       | 411.94     | 3.53           |
| 2017/02/15 08:10 | 4.39       | 411.94     | 3.53           |
| 2017/02/15 08:25 | 4.39       | 398.40     | 3.42           |
| 2017/02/15 08:40 | 4.29       | 384.93     | 3.40           |
| 2017/02/15 08:55 | 4.29       | 384.93     | 3.40           |
| 2017/02/15 09:10 | 4.29       | 382.50     | 3.38           |
| 2017/02/15 09:25 | 4.23       | 379.72     | 3.42           |
| 2017/02/15 09:40 | 4.23       | 377.15     | 3.39           |
| 2017/02/15 09:55 | 4.23       | 377.15     | 3.39           |
| 2017/02/15 10:10 | 4.23       | 374.10     | 3.37           |
| 2017/02/15 10:25 | 4.22       | 375.48     | 3.39           |
| 2017/02/15 10:40 | 4.21       | 373.82     | 3.39           |
| 2017/02/15 10:55 | 4.16       | 365.76     | 3.37           |
| 2017/02/15 11:10 | 4.16       | 363.47     | 3.34           |
| 2017/02/15 11:25 | 3.89       | 307.43     | 3.11           |
| 2017/02/15 11:40 | 3.89       | 307.43     | 3.11           |
| 2017/02/15 11:55 | 3.79       | 276.32     | 2.89           |
| 2017/02/15 12:10 | 3.69       | 265.35     | 2.88           |
| 2017/02/15 12:25 | 3.68       | 265.21     | 2.89           |
| 2017/02/15 12:40 | 3.54       | 251.39     | 2.89           |
| 2017/02/15 12:55 | 3.52       | 245.00     | 2.84           |
| 2017/02/15 13:10 | 3.52       | 236.87     | 2.74           |
| 2017/02/15 13:25 | 3.52       | 236.87     | 2.74           |
| 2017/02/15 13:40 | 3.47       | 231.67     | 2.74           |
| 2017/02/15 13:55 | 3.46       | 230.42     | 2.74           |
| 2017/02/15 14:10 | 3.46       | 230.42     | 2.74           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 14:25 | 3.44       | 226.80     | 2.71           |
| 2017/02/15 14:40 | 3.43       | 225.55     | 2.71           |
| 2017/02/15 14:55 | 3.41       | 221.11     | 2.68           |
| 2017/02/15 15:10 | 3.41       | 221.11     | 2.68           |
| 2017/02/15 15:25 | 3.41       | 221.11     | 2.68           |
| 2017/02/15 15:40 | 3.41       | 220.21     | 2.67           |
| 2017/02/15 15:55 | 3.37       | 216.46     | 2.67           |
| 2017/02/15 16:10 | 3.37       | 211.04     | 2.60           |
| 2017/02/15 16:25 | 3.37       | 211.04     | 2.60           |
| 2017/02/15 16:40 | 3.41       | 218.33     | 2.64           |
| 2017/02/15 16:55 | 3.37       | 216.94     | 2.67           |
| 2017/02/15 17:10 | 3.41       | 225.90     | 2.73           |
| 2017/02/15 17:25 | 3.46       | 235.49     | 2.80           |
| 2017/02/15 17:40 | 3.46       | 235.49     | 2.80           |
| 2017/02/15 17:55 | 3.46       | 234.24     | 2.79           |
| 2017/02/15 18:10 | 3.47       | 236.80     | 2.80           |
| 2017/02/15 18:25 | 3.47       | 240.07     | 2.84           |
| 2017/02/15 18:40 | 3.51       | 244.10     | 2.84           |
| 2017/02/15 18:55 | 3.77       | 283.75     | 2.99           |
| 2017/02/15 19:10 | 3.91       | 302.99     | 3.04           |
| 2017/02/15 19:25 | 3.93       | 314.24     | 3.13           |
| 2017/02/15 19:40 | 3.93       | 316.25     | 3.15           |
| 2017/02/15 19:55 | 3.96       | 326.25     | 3.22           |
| 2017/02/15 20:10 | 3.96       | 319.30     | 3.15           |
| 2017/02/15 20:25 | 3.96       | 317.29     | 3.13           |
| 2017/02/15 20:40 | 3.96       | 319.30     | 3.15           |
| 2017/02/15 20:55 | 3.96       | 311.25     | 3.07           |
| 2017/02/15 21:10 | 3.94       | 308.26     | 3.06           |
| 2017/02/15 21:25 | 3.91       | 295.07     | 2.96           |
| 2017/02/15 21:40 | 3.89       | 291.25     | 2.95           |
| 2017/02/15 21:55 | 3.75       | 267.57     | 2.85           |
| 2017/02/15 22:10 | 3.71       | 263.47     | 2.85           |
| 2017/02/15 22:25 | 3.71       | 255.00     | 2.75           |
| 2017/02/15 22:40 | 3.71       | 254.51     | 2.75           |
| 2017/02/15 22:55 | 3.51       | 235.97     | 2.75           |
| 2017/02/15 23:10 | 3.34       | 216.94     | 2.70           |
| 2017/02/15 23:25 | 3.07       | 185.14     | 2.60           |
| 2017/02/15 23:40 | 2.97       | 160.69     | 2.37           |
| 2017/02/15 23:55 | 2.82       | 149.10     | 2.37           |
| 2017/02/16 00:10 | 2.68       | 141.53     | 2.41           |
| 2017/02/16 00:25 | 2.51       | 126.60     | 2.36           |
| 2017/02/16 00:40 | 2.28       | 109.86     | 2.36           |
| 2017/02/16 00:55 | 2.22       | 106.04     | 2.36           |
| 2017/02/16 01:10 | 2.11       | 92.64      | 2.22           |
| 2017/02/16 01:25 | 1.89       | 78.33      | 2.21           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 01:40 | 1.87       | 77.01      | 2.19           |
| 2017/02/16 01:55 | 1.84       | 75.28      | 2.19           |
| 2017/02/16 02:10 | 1.79       | 68.26      | 2.08           |
| 2017/02/16 02:25 | 1.78       | 65.28      | 2.01           |
| 2017/02/16 02:40 | 1.75       | 60.90      | 1.92           |
| 2017/02/16 02:55 | 1.72       | 59.44      | 1.92           |
| 2017/02/16 03:10 | 1.68       | 59.03      | 1.97           |
| 2017/02/16 03:25 | 1.65       | 57.22      | 1.96           |
| 2017/02/16 03:40 | 1.65       | 57.57      | 1.97           |
| 2017/02/16 03:55 | 1.64       | 56.87      | 1.97           |
| 2017/02/16 04:10 | 1.65       | 57.57      | 1.97           |
| 2017/02/16 04:25 | 1.65       | 59.93      | 2.05           |
| 2017/02/16 04:40 | 1.66       | 65.76      | 2.22           |
| 2017/02/16 04:55 | 1.71       | 68.12      | 2.22           |
| 2017/02/16 05:10 | 1.73       | 71.81      | 2.29           |
| 2017/02/16 05:25 | 1.82       | 76.87      | 2.29           |
| 2017/02/16 05:40 | 1.90       | 82.78      | 2.31           |
| 2017/02/16 05:55 | 2.22       | 107.71     | 2.40           |
| 2017/02/16 06:10 | 2.41       | 122.50     | 2.42           |
| 2017/02/16 06:25 | 2.59       | 140.56     | 2.51           |
| 2017/02/16 06:40 | 2.96       | 190.90     | 2.83           |
| 2017/02/16 06:55 | 3.15       | 218.61     | 2.96           |
| 2017/02/16 07:10 | 3.47       | 267.50     | 3.17           |
| 2017/02/16 07:25 | 3.71       | 296.80     | 3.21           |
| 2017/02/16 07:40 | 4.14       | 353.40     | 3.28           |
| 2017/02/16 07:55 | 4.26       | 385.14     | 3.43           |
| 2017/02/16 08:10 | 4.26       | 385.14     | 3.43           |
| 2017/02/16 08:25 | 4.33       | 376.18     | 3.28           |
| 2017/02/16 08:40 | 4.34       | 395.42     | 3.43           |
| 2017/02/16 08:55 | 4.26       | 382.43     | 3.41           |
| 2017/02/16 09:10 | 4.19       | 366.73     | 3.34           |
| 2017/02/16 09:25 | 4.19       | 366.73     | 3.34           |
| 2017/02/16 09:40 | 4.18       | 365.07     | 3.34           |
| 2017/02/16 09:55 | 4.07       | 351.87     | 3.34           |
| 2017/02/16 10:10 | 4.07       | 326.04     | 3.10           |
| 2017/02/16 10:25 | 3.98       | 316.94     | 3.10           |
| 2017/02/16 10:40 | 3.97       | 328.96     | 3.23           |
| 2017/02/16 10:55 | 3.96       | 327.36     | 3.23           |
| 2017/02/16 11:10 | 3.84       | 299.58     | 3.08           |
| 2017/02/16 11:25 | 3.96       | 312.50     | 3.09           |
| 2017/02/16 11:40 | 3.84       | 299.58     | 3.08           |
| 2017/02/16 11:55 | 3.84       | 296.04     | 3.04           |
| 2017/02/16 12:10 | 3.84       | 289.51     | 2.97           |
| 2017/02/16 12:25 | 3.82       | 293.12     | 3.04           |
| 2017/02/16 12:40 | 3.82       | 289.58     | 3.00           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 12:55 | 3.75       | 282.29     | 3.00           |
| 2017/02/16 13:10 | 3.71       | 282.22     | 3.05           |
| 2017/02/16 13:25 | 3.71       | 282.22     | 3.05           |
| 2017/02/16 13:40 | 3.71       | 277.99     | 3.00           |
| 2017/02/16 13:55 | 3.68       | 271.32     | 2.96           |
| 2017/02/16 14:10 | 3.64       | 245.62     | 2.72           |
| 2017/02/16 14:25 | 3.58       | 240.42     | 2.72           |
| 2017/02/16 14:40 | 3.58       | 240.69     | 2.73           |
| 2017/02/16 14:55 | 3.58       | 249.72     | 2.83           |
| 2017/02/16 15:10 | 3.58       | 249.72     | 2.83           |
| 2017/02/16 15:25 | 3.57       | 248.40     | 2.83           |
| 2017/02/16 15:40 | 3.57       | 248.40     | 2.83           |
| 2017/02/16 15:55 | 3.57       | 248.40     | 2.83           |
| 2017/02/16 16:10 | 3.46       | 231.39     | 2.75           |
| 2017/02/16 16:25 | 3.46       | 229.86     | 2.74           |
| 2017/02/16 16:40 | 3.36       | 220.90     | 2.74           |
| 2017/02/16 16:55 | 3.36       | 222.36     | 2.75           |
| 2017/02/16 17:10 | 3.36       | 226.60     | 2.81           |
| 2017/02/16 17:25 | 3.50       | 240.28     | 2.81           |
| 2017/02/16 17:40 | 3.59       | 253.12     | 2.85           |
| 2017/02/16 17:55 | 3.65       | 261.32     | 2.88           |
| 2017/02/16 18:10 | 3.61       | 257.22     | 2.88           |
| 2017/02/16 18:25 | 3.65       | 261.32     | 2.88           |
| 2017/02/16 18:40 | 3.66       | 262.71     | 2.88           |
| 2017/02/16 18:55 | 3.75       | 270.97     | 2.88           |
| 2017/02/16 19:10 | 3.76       | 273.96     | 2.90           |
| 2017/02/16 19:25 | 3.77       | 283.75     | 2.99           |
| 2017/02/16 19:40 | 3.83       | 297.50     | 3.07           |
| 2017/02/16 19:55 | 3.83       | 297.85     | 3.07           |
| 2017/02/16 20:10 | 3.89       | 321.11     | 3.25           |
| 2017/02/16 20:25 | 3.89       | 321.11     | 3.25           |
| 2017/02/16 20:40 | 3.89       | 319.03     | 3.23           |
| 2017/02/16 20:55 | 3.77       | 306.53     | 3.23           |
| 2017/02/16 21:10 | 3.77       | 306.53     | 3.23           |
| 2017/02/16 21:25 | 3.77       | 277.36     | 2.92           |
| 2017/02/16 21:40 | 3.77       | 277.36     | 2.92           |
| 2017/02/16 21:55 | 3.77       | 277.36     | 2.92           |
| 2017/02/16 22:10 | 3.77       | 277.36     | 2.92           |
| 2017/02/16 22:25 | 3.61       | 243.68     | 2.73           |
| 2017/02/16 22:40 | 3.54       | 235.62     | 2.71           |
| 2017/02/16 22:55 | 3.29       | 212.78     | 2.71           |
| 2017/02/16 23:10 | 3.26       | 205.14     | 2.65           |
| 2017/02/16 23:25 | 3.22       | 201.46     | 2.65           |
| 2017/02/16 23:40 | 3.05       | 185.28     | 2.62           |
| 2017/02/16 23:55 | 2.73       | 149.17     | 2.47           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/17 00:10 | 2.72       | 147.50     | 2.46           |
| 2017/02/17 00:25 | 2.46       | 111.81     | 2.16           |
| 2017/02/17 00:40 | 2.44       | 110.90     | 2.16           |
| 2017/02/17 00:55 | 2.41       | 107.92     | 2.13           |
| 2017/02/17 01:10 | 2.37       | 106.46     | 2.16           |
| 2017/02/17 01:25 | 2.12       | 90.69      | 2.16           |
| 2017/02/17 01:40 | 2.00       | 82.15      | 2.13           |
| 2017/02/17 01:55 | 1.83       | 71.53      | 2.11           |
| 2017/02/17 02:10 | 1.73       | 66.11      | 2.11           |
| 2017/02/17 02:25 | 1.72       | 65.35      | 2.11           |
| 2017/02/17 02:40 | 1.72       | 65.35      | 2.11           |
| 2017/02/17 02:55 | 1.72       | 67.22      | 2.17           |
| 2017/02/17 03:10 | 1.72       | 68.33      | 2.20           |
| 2017/02/17 03:25 | 1.68       | 65.97      | 2.20           |
| 2017/02/17 03:40 | 1.72       | 67.22      | 2.17           |
| 2017/02/17 03:55 | 1.66       | 64.10      | 2.17           |
| 2017/02/17 04:10 | 1.66       | 63.54      | 2.15           |
| 2017/02/17 04:25 | 1.66       | 59.86      | 2.02           |
| 2017/02/17 04:40 | 1.72       | 62.78      | 2.02           |
| 2017/02/17 04:55 | 1.72       | 62.78      | 2.02           |
| 2017/02/17 05:10 | 1.72       | 64.24      | 2.07           |
| 2017/02/17 05:25 | 1.87       | 74.17      | 2.11           |
| 2017/02/17 05:40 | 1.97       | 81.60      | 2.16           |
| 2017/02/17 05:55 | 1.98       | 83.19      | 2.18           |
| 2017/02/17 06:10 | 2.36       | 109.58     | 2.24           |
| 2017/02/17 06:25 | 2.65       | 138.75     | 2.40           |
| 2017/02/17 06:40 | 2.79       | 157.29     | 2.53           |
| 2017/02/17 06:55 | 3.00       | 174.65     | 2.54           |
| 2017/02/17 07:10 | 3.33       | 213.75     | 2.68           |
| 2017/02/17 07:25 | 3.47       | 278.19     | 3.29           |
| 2017/02/17 07:40 | 3.86       | 322.29     | 3.29           |
| 2017/02/17 07:55 | 3.87       | 324.79     | 3.30           |
| 2017/02/17 08:10 | 4.19       | 388.19     | 3.54           |
| 2017/02/17 08:25 | 4.23       | 393.40     | 3.54           |
| 2017/02/17 08:40 | 4.36       | 403.82     | 3.49           |
| 2017/02/17 08:55 | 4.36       | 403.82     | 3.49           |
| 2017/02/17 09:10 | 4.36       | 387.57     | 3.35           |
| 2017/02/17 09:25 | 4.32       | 382.57     | 3.35           |
| 2017/02/17 09:40 | 4.15       | 362.64     | 3.35           |
| 2017/02/17 09:55 | 4.15       | 371.87     | 3.44           |



# Site Report

02-15-2017

**Confidential Proprietary Information**

David Evans

~200 Valley Dr

2017.01-02 Site 5 Valley Dr MH

Manhole No. 0241

Access:

Manhole in green space between  
Valley Dr & 3rd St

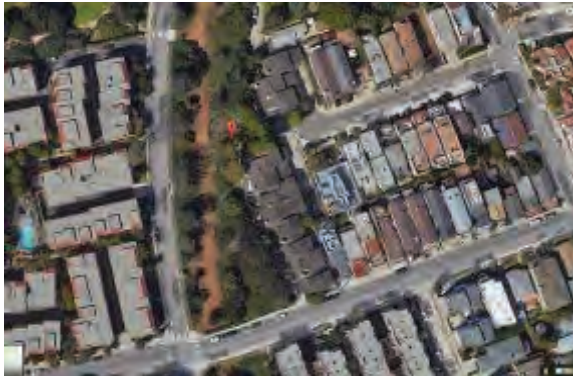
System Type:

Sanitary ☒

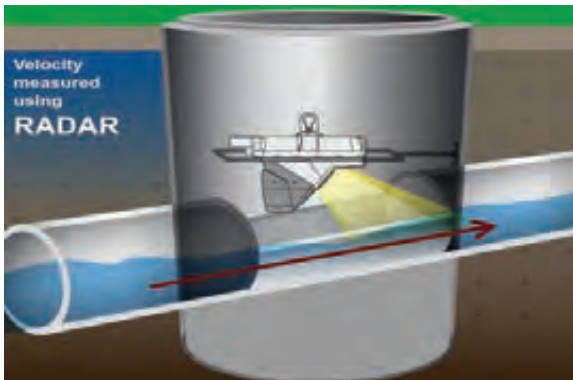
Storm ☐

Install Date: 1/19/2017

Map



Technology



Sewer Plan



## Flow Meter

Meter Depth: 85"

Map Coordinates: 33.856401, -118.394364

Turbulent open channel hydraulics due to quantity  
of inflow from upstream lines.

| Avg Velocity | Avg Measured Level | Multiplier |
|--------------|--------------------|------------|
| 1.75 fps     | 4.5"               | 1          |

## Gas

| O2   | H2S | CO | LEL |
|------|-----|----|-----|
| 20.9 | 0   | 0  | 0   |

## Notes

Better hydraulics in monitored MH than in the  
downstream MH.

## Traffic Safety

No traffic near MH during installation or removal.

## Land Use

| Residential | Commercial | Industrial | Trunk |
|-------------|------------|------------|-------|
| X           | X          |            |       |

Manhole Depth 99"

Monitored Pipe Size 8"

Inner Pipe Size (In/Out) 8"/8"

Pipe Shape Round

Pipe Condition Fair

Manhole Material Concrete

Silt 0

Velocity Profile Data \*

Velocity Profile Taken 0.4 2-D

Sensor Offset 13.81"

Sensor Dist. to Crown 5.81"

Sensor Direction Downstream

Flow Heading West



## Meter Site Document

David Evans

2017.01-02 Site 5 Valley Dr MH

~200 Valley Dr

Site



Manhole Hydraulics



Installation Process



Installed



MH C0240





Utility Systems Science and Software

Report Date: 02/20/2017  
Customer: David Evans  
Group: Hermosa Beach  
SiteID: 2638

### Statistics for 2017.01-02 Site 5 Valley Dr MH: 01/20/2017 thru 02/16/2017

|              | Flow (GPM)    |               |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |             |             |                  |             |
|--------------|---------------|---------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|-------------|-------------|------------------|-------------|
| Date         | Avg           | Max           | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max         | Min         | Total Gal        | Rain        |
| 1/20/17      | 124.20        | 271.32        | 48.68        | 0.18        | 0.39        | 0.07        | 1.26           | 2.10        | 0.62        | 4.72           | 6.57        | 3.47        | 178,844          | 1.29        |
| 1/21/17      | 118.90        | 240.62        | 53.89        | 0.17        | 0.35        | 0.08        | 1.22           | 2.07        | 0.84        | 4.66           | 5.62        | 3.39        | 171,211          |             |
| 1/22/17      | 145.34        | 360.97        | 63.89        | 0.21        | 0.52        | 0.09        | 1.31           | 2.66        | 0.77        | 5.14           | 7.76        | 3.71        | 209,289          | 3.72        |
| <b>Week:</b> | <b>129.48</b> | <b>360.97</b> | <b>48.68</b> | <b>0.19</b> | <b>0.52</b> | <b>0.07</b> | <b>1.26</b>    | <b>2.66</b> | <b>0.62</b> | <b>4.84</b>    | <b>7.76</b> | <b>3.39</b> | <b>559,344</b>   | <b>5.01</b> |
| 1/23/17      | 113.07        | 199.93        | 44.58        | 0.16        | 0.29        | 0.06        | 1.13           | 1.70        | 0.58        | 4.81           | 5.70        | 3.57        | 162,816          | 0.13        |
| 1/24/17      | 109.68        | 206.32        | 66.46        | 0.16        | 0.30        | 0.10        | 1.13           | 1.79        | 0.80        | 4.75           | 5.64        | 3.50        | 157,941          |             |
| 1/25/17      | 137.05        | 220.76        | 78.68        | 0.20        | 0.32        | 0.11        | 1.30           | 2.74        | 0.87        | 5.18           | 6.12        | 4.00        | 197,346          |             |
| 1/26/17      | 115.54        | 206.53        | 63.61        | 0.17        | 0.30        | 0.09        | 1.16           | 2.53        | 0.65        | 4.86           | 5.97        | 4.14        | 166,381          |             |
| 1/27/17      | 107.61        | 204.03        | 59.03        | 0.16        | 0.29        | 0.09        | 1.15           | 1.85        | 0.76        | 4.57           | 5.36        | 3.39        | 154,957          |             |
| 1/28/17      | 112.54        | 169.72        | 55.90        | 0.16        | 0.24        | 0.08        | 1.23           | 1.98        | 0.81        | 4.52           | 5.26        | 3.26        | 162,051          |             |
| 1/29/17      | 114.77        | 203.82        | 70.49        | 0.17        | 0.29        | 0.10        | 1.22           | 1.88        | 0.84        | 4.59           | 5.26        | 3.50        | 165,271          |             |
| <b>Week:</b> | <b>115.75</b> | <b>220.76</b> | <b>44.58</b> | <b>0.17</b> | <b>0.32</b> | <b>0.06</b> | <b>1.19</b>    | <b>2.74</b> | <b>0.58</b> | <b>4.75</b>    | <b>6.12</b> | <b>3.26</b> | <b>1,166,763</b> | <b>0.13</b> |
| 1/30/17      | 112.67        | 191.04        | 60.28        | 0.16        | 0.28        | 0.09        | 1.22           | 1.68        | 0.78        | 4.52           | 5.46        | 3.29        | 162,241          |             |
| 1/31/17      | 106.06        | 194.44        | 61.67        | 0.15        | 0.28        | 0.09        | 1.11           | 1.77        | 0.82        | 4.69           | 5.44        | 3.59        | 152,732          |             |
| 2/1/17       | 115.51        | 202.64        | 64.03        | 0.17        | 0.29        | 0.09        | 1.19           | 1.72        | 0.70        | 4.72           | 5.64        | 3.44        | 166,334          |             |
| 2/2/17       | 107.51        | 219.17        | 66.74        | 0.15        | 0.32        | 0.10        | 1.10           | 1.88        | 0.66        | 4.76           | 5.58        | 3.62        | 154,820          |             |
| 2/3/17       | 119.05        | 208.05        | 57.50        | 0.17        | 0.30        | 0.08        | 1.31           | 2.00        | 0.78        | 4.53           | 5.43        | 3.16        | 171,429          | 0.39        |

|                | Flow (GPM)    |               |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |             |             |                  |             |
|----------------|---------------|---------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|-------------|-------------|------------------|-------------|
| Date           | Avg           | Max           | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max         | Min         | Total Gal        | Rain        |
| 2/4/17         | 110.72        | 193.33        | 40.90        | 0.16        | 0.28        | 0.06        | 1.18           | 1.73        | 0.63        | 4.52           | 5.39        | 3.16        | 159,437          |             |
| 2/5/17         | 119.81        | 189.03        | 68.75        | 0.17        | 0.27        | 0.10        | 1.33           | 1.77        | 0.89        | 4.44           | 5.33        | 3.29        | 172,533          |             |
| <b>Week:</b>   | <b>113.05</b> | <b>219.17</b> | <b>40.90</b> | <b>0.16</b> | <b>0.32</b> | <b>0.06</b> | <b>1.21</b>    | <b>2.00</b> | <b>0.63</b> | <b>4.60</b>    | <b>5.64</b> | <b>3.16</b> | <b>1,139,526</b> | <b>0.39</b> |
| 2/6/17         | 123.04        | 232.15        | 53.75        | 0.18        | 0.33        | 0.08        | 1.26           | 1.91        | 0.78        | 4.68           | 5.80        | 3.33        | 177,179          | 1.43        |
| 2/7/17         | 115.76        | 174.79        | 43.82        | 0.17        | 0.25        | 0.06        | 1.24           | 1.65        | 0.67        | 4.51           | 5.54        | 3.32        | 166,697          | 0.64        |
| 2/8/17         | 129.53        | 198.40        | 60.42        | 0.19        | 0.29        | 0.09        | 1.35           | 1.85        | 0.78        | 4.67           | 5.39        | 3.64        | 186,520          | 0.07        |
| 2/9/17         | 130.17        | 223.05        | 48.40        | 0.19        | 0.32        | 0.07        | 1.30           | 2.08        | 0.75        | 4.74           | 6.22        | 3.44        | 187,440          |             |
| 2/10/17        | 124.26        | 192.85        | 41.04        | 0.18        | 0.28        | 0.06        | 1.19           | 1.59        | 0.59        | 4.93           | 5.97        | 3.52        | 178,941          | 0.33        |
| 2/11/17        | 136.09        | 265.83        | 48.61        | 0.20        | 0.38        | 0.07        | 1.28           | 2.13        | 0.64        | 5.01           | 5.95        | 3.65        | 195,968          | 0.01        |
| 2/12/17        | 145.75        | 232.08        | 75.49        | 0.21        | 0.33        | 0.11        | 1.35           | 1.91        | 0.88        | 5.14           | 5.94        | 4.07        | 209,881          |             |
| <b>Week:</b>   | <b>129.23</b> | <b>265.83</b> | <b>41.04</b> | <b>0.19</b> | <b>0.38</b> | <b>0.06</b> | <b>1.28</b>    | <b>2.13</b> | <b>0.59</b> | <b>4.81</b>    | <b>6.22</b> | <b>3.32</b> | <b>1,302,626</b> | <b>2.48</b> |
| 2/13/17        | 128.71        | 203.47        | 59.10        | 0.19        | 0.29        | 0.09        | 1.22           | 1.69        | 0.65        | 5.05           | 5.76        | 3.89        | 185,342          |             |
| 2/14/17        | 102.66        | 165.49        | 47.01        | 0.15        | 0.24        | 0.07        | 1.11           | 1.54        | 0.59        | 4.50           | 5.18        | 3.09        | 147,836          |             |
| 2/15/17        | 129.90        | 199.58        | 49.31        | 0.19        | 0.29        | 0.07        | 1.32           | 1.87        | 0.73        | 4.69           | 5.61        | 3.55        | 187,056          |             |
| 2/16/17        | 134.84        | 214.17        | 63.61        | 0.19        | 0.31        | 0.09        | 1.31           | 1.85        | 0.82        | 4.88           | 5.89        | 3.86        | 194,166          |             |
| <b>Week:</b>   | <b>124.03</b> | <b>214.17</b> | <b>47.01</b> | <b>0.18</b> | <b>0.31</b> | <b>0.07</b> | <b>1.24</b>    | <b>1.87</b> | <b>0.59</b> | <b>4.78</b>    | <b>5.89</b> | <b>3.09</b> | <b>714,400</b>   |             |
| <b>Totals:</b> | <b>121.10</b> | <b>360.97</b> | <b>40.90</b> | <b>0.17</b> | <b>0.52</b> | <b>0.06</b> | <b>1.23</b>    | <b>2.74</b> | <b>0.58</b> | <b>4.74</b>    | <b>7.76</b> | <b>3.09</b> | <b>4,882,659</b> | <b>8.01</b> |



Data for 2017.01-02 Site 5 Valley Dr MH:  
1/19/2017 thru 2/17/2017

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 14:18 | 4.33       | 167.92     | 1.94           |
| 2017/01/19 14:33 | 4.98       | 87.64      | 0.85           |
| 2017/01/19 14:48 | 5.00       | 135.83     | 1.32           |
| 2017/01/19 15:03 | 4.69       | 70.97      | 0.74           |
| 2017/01/19 15:18 | 4.69       | 99.37      | 1.04           |
| 2017/01/19 15:33 | 4.76       | 101.11     | 1.04           |
| 2017/01/19 15:48 | 4.76       | 102.64     | 1.06           |
| 2017/01/19 16:03 | 4.69       | 99.37      | 1.04           |
| 2017/01/19 16:18 | 4.72       | 100.07     | 1.04           |
| 2017/01/19 16:33 | 4.72       | 98.06      | 1.02           |
| 2017/01/19 16:48 | 4.72       | 98.06      | 1.02           |
| 2017/01/19 17:03 | 4.72       | 95.07      | 0.99           |
| 2017/01/19 17:18 | 4.84       | 101.11     | 1.02           |
| 2017/01/19 17:33 | 4.96       | 104.37     | 1.02           |
| 2017/01/19 17:48 | 4.96       | 104.65     | 1.03           |
| 2017/01/19 18:03 | 5.04       | 110.83     | 1.07           |
| 2017/01/19 18:18 | 4.96       | 124.24     | 1.22           |
| 2017/01/19 18:33 | 5.04       | 135.42     | 1.30           |
| 2017/01/19 18:48 | 5.04       | 126.74     | 1.22           |
| 2017/01/19 19:03 | 5.19       | 131.18     | 1.22           |
| 2017/01/19 19:18 | 5.27       | 133.61     | 1.22           |
| 2017/01/19 19:33 | 5.30       | 136.74     | 1.24           |
| 2017/01/19 19:48 | 5.40       | 129.93     | 1.16           |
| 2017/01/19 20:03 | 5.54       | 133.68     | 1.16           |
| 2017/01/19 20:18 | 5.54       | 143.54     | 1.24           |
| 2017/01/19 20:33 | 5.40       | 160.83     | 1.43           |
| 2017/01/19 20:48 | 5.40       | 160.83     | 1.43           |
| 2017/01/19 21:03 | 5.36       | 159.44     | 1.43           |
| 2017/01/19 21:18 | 5.34       | 159.03     | 1.43           |
| 2017/01/19 21:33 | 5.34       | 159.03     | 1.43           |
| 2017/01/19 21:48 | 5.29       | 183.82     | 1.67           |
| 2017/01/19 22:03 | 5.29       | 155.76     | 1.42           |
| 2017/01/19 22:18 | 5.21       | 152.99     | 1.42           |
| 2017/01/19 22:33 | 5.12       | 127.71     | 1.21           |
| 2017/01/19 22:48 | 5.04       | 121.46     | 1.17           |
| 2017/01/19 23:03 | 5.00       | 116.39     | 1.13           |
| 2017/01/19 23:18 | 4.87       | 112.99     | 1.13           |
| 2017/01/19 23:33 | 4.33       | 95.76      | 1.11           |
| 2017/01/19 23:48 | 4.32       | 89.86      | 1.04           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 00:03 | 4.21       | 92.29      | 1.11           |
| 2017/01/20 00:18 | 4.21       | 90.76      | 1.09           |
| 2017/01/20 00:33 | 4.15       | 89.31      | 1.09           |
| 2017/01/20 00:48 | 4.09       | 87.78      | 1.09           |
| 2017/01/20 01:03 | 3.86       | 81.39      | 1.09           |
| 2017/01/20 01:18 | 3.79       | 64.44      | 0.88           |
| 2017/01/20 01:33 | 3.66       | 61.74      | 0.88           |
| 2017/01/20 01:48 | 3.51       | 138.06     | 2.09           |
| 2017/01/20 02:03 | 3.47       | 109.37     | 1.68           |
| 2017/01/20 02:18 | 3.47       | 109.37     | 1.68           |
| 2017/01/20 02:33 | 3.47       | 109.37     | 1.68           |
| 2017/01/20 02:48 | 3.47       | 76.11      | 1.17           |
| 2017/01/20 03:03 | 3.47       | 76.11      | 1.17           |
| 2017/01/20 03:18 | 3.47       | 72.29      | 1.11           |
| 2017/01/20 03:33 | 3.50       | 76.94      | 1.17           |
| 2017/01/20 03:48 | 3.54       | 70.83      | 1.06           |
| 2017/01/20 04:03 | 3.64       | 60.69      | 0.88           |
| 2017/01/20 04:18 | 3.80       | 63.26      | 0.86           |
| 2017/01/20 04:33 | 3.83       | 62.64      | 0.85           |
| 2017/01/20 04:48 | 3.93       | 64.72      | 0.85           |
| 2017/01/20 05:03 | 4.01       | 68.82      | 0.88           |
| 2017/01/20 05:18 | 4.01       | 61.04      | 0.78           |
| 2017/01/20 05:33 | 4.01       | 48.68      | 0.62           |
| 2017/01/20 05:48 | 4.01       | 68.96      | 0.88           |
| 2017/01/20 06:03 | 4.05       | 69.79      | 0.88           |
| 2017/01/20 06:18 | 4.32       | 57.22      | 0.66           |
| 2017/01/20 06:33 | 4.34       | 76.11      | 0.88           |
| 2017/01/20 06:48 | 5.21       | 103.61     | 0.96           |
| 2017/01/20 07:03 | 5.22       | 97.78      | 0.90           |
| 2017/01/20 07:18 | 5.66       | 132.99     | 1.12           |
| 2017/01/20 07:33 | 5.68       | 193.75     | 1.63           |
| 2017/01/20 07:48 | 5.68       | 223.33     | 1.88           |
| 2017/01/20 08:03 | 5.66       | 222.78     | 1.88           |
| 2017/01/20 08:18 | 5.55       | 217.99     | 1.88           |
| 2017/01/20 08:33 | 5.55       | 217.99     | 1.88           |
| 2017/01/20 08:48 | 5.36       | 137.50     | 1.23           |
| 2017/01/20 09:03 | 5.22       | 133.47     | 1.23           |
| 2017/01/20 09:18 | 5.22       | 127.36     | 1.18           |
| 2017/01/20 09:33 | 5.22       | 127.36     | 1.18           |
| 2017/01/20 09:48 | 5.27       | 135.07     | 1.23           |
| 2017/01/20 10:03 | 5.29       | 142.71     | 1.30           |
| 2017/01/20 10:18 | 5.30       | 129.65     | 1.18           |
| 2017/01/20 10:33 | 5.30       | 156.39     | 1.42           |
| 2017/01/20 10:48 | 5.36       | 171.39     | 1.54           |
| 2017/01/20 11:03 | 5.37       | 203.26     | 1.82           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 11:18 | 5.57       | 211.46     | 1.82           |
| 2017/01/20 11:33 | 6.02       | 264.03     | 2.09           |
| 2017/01/20 11:48 | 6.05       | 265.28     | 2.09           |
| 2017/01/20 12:03 | 6.14       | 271.32     | 2.10           |
| 2017/01/20 12:18 | 6.57       | 268.12     | 1.95           |
| 2017/01/20 12:33 | 6.57       | 268.12     | 1.95           |
| 2017/01/20 12:48 | 6.57       | 207.64     | 1.51           |
| 2017/01/20 13:03 | 5.29       | 137.15     | 1.25           |
| 2017/01/20 13:18 | 5.15       | 132.57     | 1.24           |
| 2017/01/20 13:33 | 4.73       | 97.64      | 1.01           |
| 2017/01/20 13:48 | 4.73       | 97.64      | 1.01           |
| 2017/01/20 14:03 | 4.64       | 94.24      | 1.00           |
| 2017/01/20 14:18 | 4.73       | 97.64      | 1.01           |
| 2017/01/20 14:33 | 4.73       | 104.10     | 1.08           |
| 2017/01/20 14:48 | 4.79       | 111.53     | 1.14           |
| 2017/01/20 15:03 | 4.87       | 115.07     | 1.15           |
| 2017/01/20 15:18 | 4.89       | 132.01     | 1.32           |
| 2017/01/20 15:33 | 4.93       | 133.33     | 1.32           |
| 2017/01/20 15:48 | 4.93       | 133.33     | 1.32           |
| 2017/01/20 16:03 | 4.93       | 139.79     | 1.38           |
| 2017/01/20 16:18 | 4.93       | 125.00     | 1.23           |
| 2017/01/20 16:33 | 4.93       | 122.36     | 1.21           |
| 2017/01/20 16:48 | 4.65       | 113.12     | 1.20           |
| 2017/01/20 17:03 | 4.65       | 116.60     | 1.23           |
| 2017/01/20 17:18 | 4.65       | 116.60     | 1.23           |
| 2017/01/20 17:33 | 4.79       | 121.11     | 1.24           |
| 2017/01/20 17:48 | 4.54       | 113.96     | 1.24           |
| 2017/01/20 18:03 | 4.79       | 124.37     | 1.27           |
| 2017/01/20 18:18 | 4.82       | 125.28     | 1.27           |
| 2017/01/20 18:33 | 5.00       | 136.04     | 1.32           |
| 2017/01/20 18:48 | 5.01       | 139.31     | 1.35           |
| 2017/01/20 19:03 | 5.01       | 140.69     | 1.36           |
| 2017/01/20 19:18 | 5.00       | 140.28     | 1.36           |
| 2017/01/20 19:33 | 4.77       | 136.32     | 1.40           |
| 2017/01/20 19:48 | 4.77       | 136.32     | 1.40           |
| 2017/01/20 20:03 | 4.75       | 127.71     | 1.32           |
| 2017/01/20 20:18 | 4.77       | 128.61     | 1.32           |
| 2017/01/20 20:33 | 4.77       | 128.61     | 1.32           |
| 2017/01/20 20:48 | 4.76       | 121.32     | 1.25           |
| 2017/01/20 21:03 | 4.75       | 120.90     | 1.25           |
| 2017/01/20 21:18 | 4.68       | 116.18     | 1.22           |
| 2017/01/20 21:33 | 4.68       | 115.69     | 1.22           |
| 2017/01/20 21:48 | 4.68       | 115.69     | 1.22           |
| 2017/01/20 22:03 | 4.66       | 106.60     | 1.12           |
| 2017/01/20 22:18 | 4.66       | 103.26     | 1.09           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 22:33 | 4.66       | 96.94      | 1.02           |
| 2017/01/20 22:48 | 4.62       | 95.90      | 1.02           |
| 2017/01/20 23:03 | 4.51       | 94.17      | 1.03           |
| 2017/01/20 23:18 | 4.51       | 94.17      | 1.03           |
| 2017/01/20 23:33 | 4.36       | 90.28      | 1.03           |
| 2017/01/20 23:48 | 4.16       | 95.07      | 1.15           |
| 2017/01/21 00:03 | 4.16       | 103.12     | 1.25           |
| 2017/01/21 00:18 | 4.02       | 91.11      | 1.15           |
| 2017/01/21 00:33 | 3.91       | 73.26      | 0.96           |
| 2017/01/21 00:48 | 3.91       | 76.39      | 1.00           |
| 2017/01/21 01:03 | 3.76       | 72.57      | 1.00           |
| 2017/01/21 01:18 | 3.71       | 68.26      | 0.96           |
| 2017/01/21 01:33 | 3.68       | 66.53      | 0.95           |
| 2017/01/21 01:48 | 3.58       | 64.24      | 0.95           |
| 2017/01/21 02:03 | 3.58       | 64.24      | 0.95           |
| 2017/01/21 02:18 | 3.58       | 64.24      | 0.95           |
| 2017/01/21 02:33 | 3.58       | 64.24      | 0.95           |
| 2017/01/21 02:48 | 3.58       | 66.39      | 0.98           |
| 2017/01/21 03:03 | 3.55       | 65.76      | 0.98           |
| 2017/01/21 03:18 | 3.46       | 54.51      | 0.84           |
| 2017/01/21 03:33 | 3.43       | 53.89      | 0.84           |
| 2017/01/21 03:48 | 3.39       | 62.50      | 0.99           |
| 2017/01/21 04:03 | 3.39       | 60.83      | 0.96           |
| 2017/01/21 04:18 | 3.40       | 61.18      | 0.96           |
| 2017/01/21 04:33 | 3.40       | 66.53      | 1.05           |
| 2017/01/21 04:48 | 3.41       | 66.87      | 1.05           |
| 2017/01/21 05:03 | 3.47       | 64.93      | 1.00           |
| 2017/01/21 05:18 | 3.47       | 64.93      | 1.00           |
| 2017/01/21 05:33 | 3.47       | 64.93      | 1.00           |
| 2017/01/21 05:48 | 3.47       | 64.03      | 0.98           |
| 2017/01/21 06:03 | 3.47       | 61.32      | 0.94           |
| 2017/01/21 06:18 | 3.47       | 60.90      | 0.94           |
| 2017/01/21 06:33 | 3.61       | 64.58      | 0.94           |
| 2017/01/21 06:48 | 3.61       | 61.11      | 0.89           |
| 2017/01/21 07:03 | 3.77       | 68.47      | 0.94           |
| 2017/01/21 07:18 | 4.00       | 76.81      | 0.98           |
| 2017/01/21 07:33 | 4.34       | 91.87      | 1.06           |
| 2017/01/21 07:48 | 4.66       | 100.28     | 1.06           |
| 2017/01/21 08:03 | 4.84       | 115.35     | 1.16           |
| 2017/01/21 08:18 | 4.75       | 115.42     | 1.19           |
| 2017/01/21 08:33 | 4.98       | 122.29     | 1.19           |
| 2017/01/21 08:48 | 4.98       | 155.62     | 1.52           |
| 2017/01/21 09:03 | 4.97       | 166.94     | 1.63           |
| 2017/01/21 09:18 | 4.97       | 166.94     | 1.63           |
| 2017/01/21 09:33 | 5.19       | 175.69     | 1.63           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 09:48 | 4.97       | 186.46     | 1.82           |
| 2017/01/21 10:03 | 5.19       | 175.69     | 1.63           |
| 2017/01/21 10:18 | 5.25       | 183.33     | 1.68           |
| 2017/01/21 10:33 | 5.25       | 164.37     | 1.51           |
| 2017/01/21 10:48 | 5.39       | 188.82     | 1.68           |
| 2017/01/21 11:03 | 5.55       | 195.35     | 1.68           |
| 2017/01/21 11:18 | 5.62       | 200.49     | 1.70           |
| 2017/01/21 11:33 | 5.62       | 231.74     | 1.97           |
| 2017/01/21 11:48 | 5.55       | 240.62     | 2.07           |
| 2017/01/21 12:03 | 5.47       | 224.79     | 1.97           |
| 2017/01/21 12:18 | 5.36       | 219.72     | 1.97           |
| 2017/01/21 12:33 | 5.36       | 208.96     | 1.87           |
| 2017/01/21 12:48 | 5.36       | 203.54     | 1.83           |
| 2017/01/21 13:03 | 5.26       | 159.51     | 1.46           |
| 2017/01/21 13:18 | 5.39       | 163.82     | 1.46           |
| 2017/01/21 13:33 | 5.39       | 153.40     | 1.37           |
| 2017/01/21 13:48 | 5.22       | 146.87     | 1.36           |
| 2017/01/21 14:03 | 5.15       | 128.82     | 1.21           |
| 2017/01/21 14:18 | 5.15       | 144.58     | 1.36           |
| 2017/01/21 14:33 | 5.15       | 116.11     | 1.09           |
| 2017/01/21 14:48 | 5.19       | 145.97     | 1.36           |
| 2017/01/21 15:03 | 5.23       | 157.08     | 1.45           |
| 2017/01/21 15:18 | 5.23       | 157.08     | 1.45           |
| 2017/01/21 15:33 | 5.23       | 118.33     | 1.09           |
| 2017/01/21 15:48 | 5.22       | 133.12     | 1.23           |
| 2017/01/21 16:03 | 5.22       | 133.12     | 1.23           |
| 2017/01/21 16:18 | 5.22       | 110.69     | 1.02           |
| 2017/01/21 16:33 | 5.22       | 110.69     | 1.02           |
| 2017/01/21 16:48 | 5.29       | 135.14     | 1.23           |
| 2017/01/21 17:03 | 5.33       | 148.89     | 1.34           |
| 2017/01/21 17:18 | 5.52       | 168.33     | 1.46           |
| 2017/01/21 17:33 | 5.52       | 168.33     | 1.46           |
| 2017/01/21 17:48 | 5.52       | 168.33     | 1.46           |
| 2017/01/21 18:03 | 5.23       | 126.60     | 1.17           |
| 2017/01/21 18:18 | 5.19       | 125.42     | 1.17           |
| 2017/01/21 18:33 | 5.14       | 123.89     | 1.17           |
| 2017/01/21 18:48 | 5.11       | 123.12     | 1.17           |
| 2017/01/21 19:03 | 5.14       | 126.94     | 1.19           |
| 2017/01/21 19:18 | 5.09       | 125.76     | 1.19           |
| 2017/01/21 19:33 | 5.07       | 123.19     | 1.18           |
| 2017/01/21 19:48 | 5.07       | 112.36     | 1.07           |
| 2017/01/21 20:03 | 5.14       | 125.21     | 1.18           |
| 2017/01/21 20:18 | 5.07       | 112.36     | 1.07           |
| 2017/01/21 20:33 | 5.14       | 125.21     | 1.18           |
| 2017/01/21 20:48 | 5.14       | 129.37     | 1.22           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 21:03 | 5.14       | 129.37     | 1.22           |
| 2017/01/21 21:18 | 5.14       | 114.65     | 1.08           |
| 2017/01/21 21:33 | 5.14       | 129.37     | 1.22           |
| 2017/01/21 21:48 | 5.12       | 114.31     | 1.08           |
| 2017/01/21 22:03 | 4.90       | 91.32      | 0.91           |
| 2017/01/21 22:18 | 4.80       | 105.97     | 1.08           |
| 2017/01/21 22:33 | 4.80       | 106.87     | 1.09           |
| 2017/01/21 22:48 | 4.80       | 88.89      | 0.90           |
| 2017/01/21 23:03 | 4.80       | 88.89      | 0.90           |
| 2017/01/21 23:18 | 4.80       | 84.37      | 0.86           |
| 2017/01/21 23:33 | 4.59       | 80.00      | 0.86           |
| 2017/01/21 23:48 | 4.57       | 79.37      | 0.86           |
| 2017/01/22 00:03 | 4.43       | 76.87      | 0.86           |
| 2017/01/22 00:18 | 4.33       | 84.37      | 0.98           |
| 2017/01/22 00:33 | 4.29       | 87.85      | 1.03           |
| 2017/01/22 00:48 | 4.29       | 87.85      | 1.03           |
| 2017/01/22 01:03 | 4.19       | 90.14      | 1.08           |
| 2017/01/22 01:18 | 4.18       | 89.79      | 1.08           |
| 2017/01/22 01:33 | 3.98       | 77.50      | 0.99           |
| 2017/01/22 01:48 | 3.98       | 74.93      | 0.96           |
| 2017/01/22 02:03 | 3.98       | 74.93      | 0.96           |
| 2017/01/22 02:18 | 3.93       | 73.54      | 0.96           |
| 2017/01/22 02:33 | 3.82       | 76.67      | 1.04           |
| 2017/01/22 02:48 | 3.82       | 76.67      | 1.04           |
| 2017/01/22 03:03 | 3.82       | 76.67      | 1.04           |
| 2017/01/22 03:18 | 3.82       | 74.72      | 1.01           |
| 2017/01/22 03:33 | 3.71       | 71.94      | 1.01           |
| 2017/01/22 03:48 | 3.71       | 68.47      | 0.96           |
| 2017/01/22 04:03 | 3.77       | 67.36      | 0.93           |
| 2017/01/22 04:18 | 3.79       | 70.49      | 0.96           |
| 2017/01/22 04:33 | 3.79       | 70.90      | 0.97           |
| 2017/01/22 04:48 | 3.80       | 67.43      | 0.92           |
| 2017/01/22 05:03 | 3.80       | 69.03      | 0.94           |
| 2017/01/22 05:18 | 3.83       | 71.94      | 0.97           |
| 2017/01/22 05:33 | 3.83       | 69.65      | 0.94           |
| 2017/01/22 05:48 | 3.87       | 70.62      | 0.94           |
| 2017/01/22 06:03 | 3.87       | 71.46      | 0.95           |
| 2017/01/22 06:18 | 3.91       | 72.57      | 0.95           |
| 2017/01/22 06:33 | 3.90       | 72.08      | 0.95           |
| 2017/01/22 06:48 | 3.90       | 72.08      | 0.95           |
| 2017/01/22 07:03 | 3.91       | 71.94      | 0.94           |
| 2017/01/22 07:18 | 4.04       | 63.89      | 0.81           |
| 2017/01/22 07:33 | 4.16       | 66.39      | 0.81           |
| 2017/01/22 07:48 | 4.29       | 65.62      | 0.77           |
| 2017/01/22 08:03 | 4.62       | 88.61      | 0.94           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 08:18 | 4.79       | 102.92     | 1.05           |
| 2017/01/22 08:33 | 5.11       | 111.04     | 1.05           |
| 2017/01/22 08:48 | 5.12       | 95.56      | 0.90           |
| 2017/01/22 09:03 | 5.21       | 120.90     | 1.12           |
| 2017/01/22 09:18 | 5.27       | 130.28     | 1.19           |
| 2017/01/22 09:33 | 5.39       | 133.33     | 1.19           |
| 2017/01/22 09:48 | 5.48       | 136.04     | 1.19           |
| 2017/01/22 10:03 | 5.48       | 166.46     | 1.45           |
| 2017/01/22 10:18 | 5.48       | 138.68     | 1.21           |
| 2017/01/22 10:33 | 5.58       | 169.65     | 1.45           |
| 2017/01/22 10:48 | 5.70       | 173.82     | 1.45           |
| 2017/01/22 11:03 | 5.77       | 193.82     | 1.60           |
| 2017/01/22 11:18 | 5.91       | 198.75     | 1.60           |
| 2017/01/22 11:33 | 5.98       | 266.18     | 2.12           |
| 2017/01/22 11:48 | 6.22       | 287.36     | 2.20           |
| 2017/01/22 12:03 | 6.25       | 298.19     | 2.27           |
| 2017/01/22 12:18 | 6.37       | 304.03     | 2.27           |
| 2017/01/22 12:33 | 6.47       | 360.97     | 2.66           |
| 2017/01/22 12:48 | 6.47       | 308.40     | 2.27           |
| 2017/01/22 13:03 | 6.47       | 356.04     | 2.62           |
| 2017/01/22 13:18 | 6.47       | 337.15     | 2.48           |
| 2017/01/22 13:33 | 6.47       | 349.58     | 2.58           |
| 2017/01/22 13:48 | 6.47       | 337.15     | 2.48           |
| 2017/01/22 14:03 | 6.89       | 356.32     | 2.48           |
| 2017/01/22 14:18 | 7.07       | 277.29     | 1.89           |
| 2017/01/22 14:33 | 7.34       | 251.60     | 1.67           |
| 2017/01/22 14:48 | 7.62       | 231.39     | 1.50           |
| 2017/01/22 15:03 | 7.76       | 222.08     | 1.43           |
| 2017/01/22 15:18 | 7.76       | 222.08     | 1.43           |
| 2017/01/22 15:33 | 7.76       | 222.08     | 1.43           |
| 2017/01/22 15:48 | 7.62       | 236.80     | 1.54           |
| 2017/01/22 16:03 | 5.87       | 189.58     | 1.54           |
| 2017/01/22 16:18 | 5.80       | 245.35     | 2.02           |
| 2017/01/22 16:33 | 5.69       | 183.33     | 1.54           |
| 2017/01/22 16:48 | 5.58       | 147.43     | 1.26           |
| 2017/01/22 17:03 | 5.58       | 139.03     | 1.19           |
| 2017/01/22 17:18 | 5.58       | 147.43     | 1.26           |
| 2017/01/22 17:33 | 5.51       | 145.42     | 1.26           |
| 2017/01/22 17:48 | 5.27       | 138.40     | 1.26           |
| 2017/01/22 18:03 | 5.27       | 150.28     | 1.37           |
| 2017/01/22 18:18 | 5.29       | 179.79     | 1.64           |
| 2017/01/22 18:33 | 5.29       | 169.86     | 1.55           |
| 2017/01/22 18:48 | 5.32       | 170.90     | 1.55           |
| 2017/01/22 19:03 | 5.32       | 170.90     | 1.55           |
| 2017/01/22 19:18 | 5.29       | 137.15     | 1.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 19:33 | 5.32       | 137.99     | 1.25           |
| 2017/01/22 19:48 | 5.21       | 134.72     | 1.25           |
| 2017/01/22 20:03 | 5.21       | 134.72     | 1.25           |
| 2017/01/22 20:18 | 5.21       | 122.22     | 1.13           |
| 2017/01/22 20:33 | 5.23       | 122.92     | 1.13           |
| 2017/01/22 20:48 | 5.23       | 122.92     | 1.13           |
| 2017/01/22 21:03 | 5.23       | 114.17     | 1.05           |
| 2017/01/22 21:18 | 5.23       | 114.17     | 1.05           |
| 2017/01/22 21:33 | 5.33       | 116.60     | 1.05           |
| 2017/01/22 21:48 | 5.05       | 100.56     | 0.96           |
| 2017/01/22 22:03 | 5.05       | 100.56     | 0.96           |
| 2017/01/22 22:18 | 5.14       | 120.83     | 1.14           |
| 2017/01/22 22:33 | 5.14       | 120.83     | 1.14           |
| 2017/01/22 22:48 | 4.89       | 113.96     | 1.14           |
| 2017/01/22 23:03 | 5.14       | 123.75     | 1.16           |
| 2017/01/22 23:18 | 4.77       | 110.90     | 1.14           |
| 2017/01/22 23:33 | 4.46       | 82.50      | 0.92           |
| 2017/01/22 23:48 | 4.46       | 82.50      | 0.92           |
| 2017/01/23 00:03 | 4.46       | 82.50      | 0.92           |
| 2017/01/23 00:18 | 4.25       | 77.71      | 0.92           |
| 2017/01/23 00:33 | 4.12       | 77.64      | 0.95           |
| 2017/01/23 00:48 | 3.98       | 74.31      | 0.95           |
| 2017/01/23 01:03 | 3.82       | 70.90      | 0.96           |
| 2017/01/23 01:18 | 3.77       | 73.68      | 1.01           |
| 2017/01/23 01:33 | 3.71       | 76.18      | 1.07           |
| 2017/01/23 01:48 | 3.69       | 77.43      | 1.10           |
| 2017/01/23 02:03 | 3.64       | 76.74      | 1.11           |
| 2017/01/23 02:18 | 3.62       | 76.39      | 1.11           |
| 2017/01/23 02:33 | 3.61       | 76.53      | 1.12           |
| 2017/01/23 02:48 | 3.58       | 76.87      | 1.13           |
| 2017/01/23 03:03 | 3.57       | 80.28      | 1.19           |
| 2017/01/23 03:18 | 3.57       | 91.67      | 1.36           |
| 2017/01/23 03:33 | 3.57       | 100.21     | 1.48           |
| 2017/01/23 03:48 | 3.59       | 92.57      | 1.36           |
| 2017/01/23 04:03 | 3.69       | 95.83      | 1.36           |
| 2017/01/23 04:18 | 3.71       | 75.62      | 1.07           |
| 2017/01/23 04:33 | 3.72       | 63.26      | 0.89           |
| 2017/01/23 04:48 | 3.72       | 50.49      | 0.71           |
| 2017/01/23 05:03 | 3.75       | 50.97      | 0.71           |
| 2017/01/23 05:18 | 3.75       | 44.86      | 0.62           |
| 2017/01/23 05:33 | 3.93       | 44.58      | 0.58           |
| 2017/01/23 05:48 | 4.05       | 49.58      | 0.62           |
| 2017/01/23 06:03 | 4.48       | 56.25      | 0.62           |
| 2017/01/23 06:18 | 4.51       | 56.67      | 0.62           |
| 2017/01/23 06:33 | 4.82       | 64.79      | 0.66           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 06:48 | 4.96       | 72.01      | 0.71           |
| 2017/01/23 07:03 | 5.07       | 89.86      | 0.86           |
| 2017/01/23 07:18 | 5.62       | 103.06     | 0.88           |
| 2017/01/23 07:33 | 5.70       | 137.15     | 1.15           |
| 2017/01/23 07:48 | 5.70       | 174.03     | 1.46           |
| 2017/01/23 08:03 | 5.70       | 174.03     | 1.46           |
| 2017/01/23 08:18 | 5.64       | 171.74     | 1.46           |
| 2017/01/23 08:33 | 5.64       | 199.93     | 1.70           |
| 2017/01/23 08:48 | 5.61       | 181.53     | 1.55           |
| 2017/01/23 09:03 | 5.54       | 132.29     | 1.14           |
| 2017/01/23 09:18 | 5.33       | 145.00     | 1.31           |
| 2017/01/23 09:33 | 5.29       | 143.68     | 1.31           |
| 2017/01/23 09:48 | 5.29       | 121.39     | 1.10           |
| 2017/01/23 10:03 | 5.29       | 121.39     | 1.10           |
| 2017/01/23 10:18 | 5.29       | 143.68     | 1.31           |
| 2017/01/23 10:33 | 5.29       | 121.39     | 1.10           |
| 2017/01/23 10:48 | 5.41       | 124.65     | 1.10           |
| 2017/01/23 11:03 | 5.41       | 128.26     | 1.14           |
| 2017/01/23 11:18 | 5.29       | 103.96     | 0.95           |
| 2017/01/23 11:33 | 5.41       | 106.74     | 0.95           |
| 2017/01/23 11:48 | 5.41       | 125.49     | 1.11           |
| 2017/01/23 12:03 | 5.41       | 128.26     | 1.14           |
| 2017/01/23 12:18 | 5.30       | 150.21     | 1.36           |
| 2017/01/23 12:33 | 5.57       | 172.57     | 1.48           |
| 2017/01/23 12:48 | 5.30       | 167.01     | 1.52           |
| 2017/01/23 13:03 | 5.41       | 170.97     | 1.52           |
| 2017/01/23 13:18 | 5.40       | 184.86     | 1.64           |
| 2017/01/23 13:33 | 5.40       | 166.87     | 1.48           |
| 2017/01/23 13:48 | 5.15       | 146.39     | 1.37           |
| 2017/01/23 14:03 | 5.15       | 135.35     | 1.27           |
| 2017/01/23 14:18 | 4.83       | 121.32     | 1.23           |
| 2017/01/23 14:33 | 4.73       | 114.31     | 1.18           |
| 2017/01/23 14:48 | 4.71       | 106.74     | 1.11           |
| 2017/01/23 15:03 | 4.73       | 107.50     | 1.11           |
| 2017/01/23 15:18 | 4.73       | 107.50     | 1.11           |
| 2017/01/23 15:33 | 4.80       | 109.37     | 1.11           |
| 2017/01/23 15:48 | 4.91       | 114.58     | 1.14           |
| 2017/01/23 16:03 | 4.91       | 129.65     | 1.28           |
| 2017/01/23 16:18 | 4.80       | 126.18     | 1.28           |
| 2017/01/23 16:33 | 4.80       | 126.18     | 1.28           |
| 2017/01/23 16:48 | 4.80       | 126.18     | 1.28           |
| 2017/01/23 17:03 | 4.75       | 102.15     | 1.05           |
| 2017/01/23 17:18 | 4.80       | 103.54     | 1.05           |
| 2017/01/23 17:33 | 4.87       | 97.85      | 0.98           |
| 2017/01/23 17:48 | 5.01       | 108.89     | 1.05           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 18:03 | 5.02       | 129.03     | 1.25           |
| 2017/01/23 18:18 | 5.23       | 135.21     | 1.25           |
| 2017/01/23 18:33 | 5.23       | 148.82     | 1.37           |
| 2017/01/23 18:48 | 5.25       | 149.24     | 1.37           |
| 2017/01/23 19:03 | 5.32       | 136.67     | 1.24           |
| 2017/01/23 19:18 | 5.25       | 131.60     | 1.21           |
| 2017/01/23 19:33 | 5.22       | 124.58     | 1.15           |
| 2017/01/23 19:48 | 5.25       | 125.28     | 1.15           |
| 2017/01/23 20:03 | 5.25       | 125.28     | 1.15           |
| 2017/01/23 20:18 | 5.25       | 127.64     | 1.17           |
| 2017/01/23 20:33 | 5.46       | 146.18     | 1.28           |
| 2017/01/23 20:48 | 5.46       | 156.67     | 1.38           |
| 2017/01/23 21:03 | 5.39       | 144.17     | 1.28           |
| 2017/01/23 21:18 | 5.41       | 155.28     | 1.38           |
| 2017/01/23 21:33 | 5.39       | 154.37     | 1.38           |
| 2017/01/23 21:48 | 5.04       | 107.99     | 1.04           |
| 2017/01/23 22:03 | 5.04       | 104.51     | 1.01           |
| 2017/01/23 22:18 | 5.09       | 105.83     | 1.01           |
| 2017/01/23 22:33 | 5.09       | 105.83     | 1.01           |
| 2017/01/23 22:48 | 5.09       | 102.78     | 0.98           |
| 2017/01/23 23:03 | 5.09       | 102.78     | 0.98           |
| 2017/01/23 23:18 | 4.57       | 86.87      | 0.94           |
| 2017/01/23 23:33 | 4.46       | 84.31      | 0.94           |
| 2017/01/23 23:48 | 4.41       | 83.33      | 0.94           |
| 2017/01/24 00:03 | 4.33       | 84.93      | 0.98           |
| 2017/01/24 00:18 | 4.23       | 89.65      | 1.07           |
| 2017/01/24 00:33 | 4.23       | 94.86      | 1.13           |
| 2017/01/24 00:48 | 3.79       | 82.43      | 1.13           |
| 2017/01/24 01:03 | 3.76       | 77.08      | 1.07           |
| 2017/01/24 01:18 | 3.76       | 82.50      | 1.14           |
| 2017/01/24 01:33 | 3.72       | 73.26      | 1.03           |
| 2017/01/24 01:48 | 3.72       | 73.26      | 1.03           |
| 2017/01/24 02:03 | 3.72       | 82.85      | 1.16           |
| 2017/01/24 02:18 | 3.72       | 82.85      | 1.16           |
| 2017/01/24 02:33 | 3.72       | 82.08      | 1.15           |
| 2017/01/24 02:48 | 3.65       | 80.83      | 1.16           |
| 2017/01/24 03:03 | 3.50       | 75.76      | 1.15           |
| 2017/01/24 03:18 | 3.50       | 67.01      | 1.02           |
| 2017/01/24 03:33 | 3.50       | 75.76      | 1.15           |
| 2017/01/24 03:48 | 3.50       | 96.32      | 1.46           |
| 2017/01/24 04:03 | 3.51       | 96.81      | 1.46           |
| 2017/01/24 04:18 | 3.59       | 99.86      | 1.46           |
| 2017/01/24 04:33 | 3.59       | 99.86      | 1.46           |
| 2017/01/24 04:48 | 3.59       | 76.25      | 1.12           |
| 2017/01/24 05:03 | 3.71       | 77.57      | 1.09           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 05:18 | 3.80       | 68.19      | 0.93           |
| 2017/01/24 05:33 | 4.01       | 68.40      | 0.87           |
| 2017/01/24 05:48 | 4.05       | 66.46      | 0.83           |
| 2017/01/24 06:03 | 4.19       | 66.81      | 0.80           |
| 2017/01/24 06:18 | 4.41       | 73.96      | 0.83           |
| 2017/01/24 06:33 | 4.54       | 76.53      | 0.83           |
| 2017/01/24 06:48 | 4.91       | 95.90      | 0.95           |
| 2017/01/24 07:03 | 5.08       | 103.61     | 0.99           |
| 2017/01/24 07:18 | 5.14       | 114.17     | 1.07           |
| 2017/01/24 07:33 | 5.33       | 131.94     | 1.19           |
| 2017/01/24 07:48 | 5.46       | 195.21     | 1.72           |
| 2017/01/24 08:03 | 5.46       | 195.21     | 1.72           |
| 2017/01/24 08:18 | 5.41       | 193.54     | 1.72           |
| 2017/01/24 08:33 | 5.51       | 206.32     | 1.79           |
| 2017/01/24 08:48 | 5.62       | 170.14     | 1.45           |
| 2017/01/24 09:03 | 5.41       | 145.97     | 1.29           |
| 2017/01/24 09:18 | 5.41       | 145.14     | 1.29           |
| 2017/01/24 09:33 | 5.27       | 140.97     | 1.29           |
| 2017/01/24 09:48 | 5.27       | 130.76     | 1.19           |
| 2017/01/24 10:03 | 5.27       | 130.76     | 1.19           |
| 2017/01/24 10:18 | 5.30       | 131.53     | 1.19           |
| 2017/01/24 10:33 | 5.30       | 131.53     | 1.19           |
| 2017/01/24 10:48 | 5.30       | 136.04     | 1.23           |
| 2017/01/24 11:03 | 5.30       | 136.04     | 1.23           |
| 2017/01/24 11:18 | 5.19       | 117.71     | 1.09           |
| 2017/01/24 11:33 | 5.19       | 106.87     | 0.99           |
| 2017/01/24 11:48 | 5.15       | 116.60     | 1.09           |
| 2017/01/24 12:03 | 5.05       | 101.67     | 0.98           |
| 2017/01/24 12:18 | 5.15       | 116.60     | 1.09           |
| 2017/01/24 12:33 | 5.15       | 103.96     | 0.98           |
| 2017/01/24 12:48 | 5.05       | 101.67     | 0.98           |
| 2017/01/24 13:03 | 4.96       | 99.37      | 0.98           |
| 2017/01/24 13:18 | 4.91       | 103.19     | 1.02           |
| 2017/01/24 13:33 | 4.91       | 103.19     | 1.02           |
| 2017/01/24 13:48 | 4.91       | 103.19     | 1.02           |
| 2017/01/24 14:03 | 4.83       | 103.33     | 1.05           |
| 2017/01/24 14:18 | 4.83       | 103.33     | 1.05           |
| 2017/01/24 14:33 | 4.83       | 103.33     | 1.05           |
| 2017/01/24 14:48 | 4.83       | 103.33     | 1.05           |
| 2017/01/24 15:03 | 4.83       | 111.94     | 1.13           |
| 2017/01/24 15:18 | 4.83       | 111.94     | 1.13           |
| 2017/01/24 15:33 | 4.76       | 78.47      | 0.81           |
| 2017/01/24 15:48 | 4.83       | 111.94     | 1.13           |
| 2017/01/24 16:03 | 4.76       | 104.58     | 1.08           |
| 2017/01/24 16:18 | 4.76       | 99.79      | 1.03           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 16:33 | 4.79       | 100.49     | 1.03           |
| 2017/01/24 16:48 | 4.94       | 105.69     | 1.04           |
| 2017/01/24 17:03 | 4.79       | 101.87     | 1.04           |
| 2017/01/24 17:18 | 4.82       | 101.18     | 1.03           |
| 2017/01/24 17:33 | 4.82       | 96.67      | 0.98           |
| 2017/01/24 17:48 | 5.07       | 108.89     | 1.04           |
| 2017/01/24 18:03 | 5.11       | 121.32     | 1.15           |
| 2017/01/24 18:18 | 5.19       | 125.62     | 1.17           |
| 2017/01/24 18:33 | 5.25       | 127.15     | 1.17           |
| 2017/01/24 18:48 | 5.26       | 127.50     | 1.17           |
| 2017/01/24 19:03 | 5.29       | 118.54     | 1.08           |
| 2017/01/24 19:18 | 5.26       | 117.85     | 1.08           |
| 2017/01/24 19:33 | 5.29       | 118.54     | 1.08           |
| 2017/01/24 19:48 | 5.64       | 162.50     | 1.38           |
| 2017/01/24 20:03 | 5.64       | 162.50     | 1.38           |
| 2017/01/24 20:18 | 5.41       | 155.49     | 1.38           |
| 2017/01/24 20:33 | 5.41       | 143.26     | 1.27           |
| 2017/01/24 20:48 | 5.33       | 140.76     | 1.27           |
| 2017/01/24 21:03 | 5.33       | 140.76     | 1.27           |
| 2017/01/24 21:18 | 5.30       | 125.97     | 1.14           |
| 2017/01/24 21:33 | 5.22       | 123.75     | 1.14           |
| 2017/01/24 21:48 | 5.23       | 108.33     | 1.00           |
| 2017/01/24 22:03 | 5.15       | 106.39     | 1.00           |
| 2017/01/24 22:18 | 5.12       | 105.69     | 1.00           |
| 2017/01/24 22:33 | 5.05       | 90.69      | 0.87           |
| 2017/01/24 22:48 | 4.80       | 87.36      | 0.89           |
| 2017/01/24 23:03 | 4.80       | 110.00     | 1.12           |
| 2017/01/24 23:18 | 4.62       | 101.32     | 1.08           |
| 2017/01/24 23:33 | 4.61       | 83.12      | 0.89           |
| 2017/01/24 23:48 | 4.47       | 97.22      | 1.08           |
| 2017/01/25 00:03 | 4.47       | 97.22      | 1.08           |
| 2017/01/25 00:18 | 4.47       | 97.22      | 1.08           |
| 2017/01/25 00:33 | 4.46       | 100.56     | 1.12           |
| 2017/01/25 00:48 | 4.37       | 98.26      | 1.12           |
| 2017/01/25 01:03 | 4.09       | 90.49      | 1.12           |
| 2017/01/25 01:18 | 4.09       | 90.49      | 1.12           |
| 2017/01/25 01:33 | 4.09       | 90.49      | 1.12           |
| 2017/01/25 01:48 | 4.09       | 214.58     | 2.66           |
| 2017/01/25 02:03 | 4.09       | 220.76     | 2.74           |
| 2017/01/25 02:18 | 4.09       | 215.55     | 2.67           |
| 2017/01/25 02:33 | 4.05       | 212.78     | 2.67           |
| 2017/01/25 02:48 | 4.09       | 215.55     | 2.67           |
| 2017/01/25 03:03 | 4.05       | 209.86     | 2.64           |
| 2017/01/25 03:18 | 4.05       | 191.39     | 2.40           |
| 2017/01/25 03:33 | 4.00       | 157.43     | 2.01           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 03:48 | 4.07       | 89.93      | 1.12           |
| 2017/01/25 04:03 | 4.07       | 89.93      | 1.12           |
| 2017/01/25 04:18 | 4.07       | 89.93      | 1.12           |
| 2017/01/25 04:33 | 4.00       | 87.99      | 1.12           |
| 2017/01/25 04:48 | 4.00       | 81.18      | 1.04           |
| 2017/01/25 05:03 | 4.00       | 80.00      | 1.02           |
| 2017/01/25 05:18 | 4.00       | 78.68      | 1.01           |
| 2017/01/25 05:33 | 4.23       | 84.58      | 1.01           |
| 2017/01/25 05:48 | 4.34       | 87.29      | 1.00           |
| 2017/01/25 06:03 | 4.61       | 81.11      | 0.87           |
| 2017/01/25 06:18 | 4.64       | 81.74      | 0.87           |
| 2017/01/25 06:33 | 4.68       | 95.42      | 1.00           |
| 2017/01/25 06:48 | 5.30       | 110.69     | 1.00           |
| 2017/01/25 07:03 | 5.54       | 116.04     | 1.00           |
| 2017/01/25 07:18 | 5.70       | 136.46     | 1.14           |
| 2017/01/25 07:33 | 5.84       | 147.85     | 1.21           |
| 2017/01/25 07:48 | 6.01       | 178.06     | 1.41           |
| 2017/01/25 08:03 | 6.12       | 202.01     | 1.57           |
| 2017/01/25 08:18 | 6.12       | 202.01     | 1.57           |
| 2017/01/25 08:33 | 6.12       | 158.19     | 1.23           |
| 2017/01/25 08:48 | 5.82       | 180.97     | 1.48           |
| 2017/01/25 09:03 | 5.75       | 155.69     | 1.29           |
| 2017/01/25 09:18 | 5.75       | 155.69     | 1.29           |
| 2017/01/25 09:33 | 5.75       | 167.85     | 1.39           |
| 2017/01/25 09:48 | 5.51       | 160.35     | 1.39           |
| 2017/01/25 10:03 | 5.47       | 147.50     | 1.29           |
| 2017/01/25 10:18 | 5.51       | 140.35     | 1.22           |
| 2017/01/25 10:33 | 5.51       | 140.35     | 1.22           |
| 2017/01/25 10:48 | 5.57       | 128.19     | 1.10           |
| 2017/01/25 11:03 | 5.57       | 110.42     | 0.95           |
| 2017/01/25 11:18 | 5.59       | 142.64     | 1.22           |
| 2017/01/25 11:33 | 5.59       | 103.89     | 0.89           |
| 2017/01/25 11:48 | 5.59       | 103.89     | 0.89           |
| 2017/01/25 12:03 | 5.48       | 137.64     | 1.20           |
| 2017/01/25 12:18 | 5.48       | 137.64     | 1.20           |
| 2017/01/25 12:33 | 5.41       | 135.69     | 1.20           |
| 2017/01/25 12:48 | 5.27       | 131.74     | 1.20           |
| 2017/01/25 13:03 | 5.27       | 121.74     | 1.11           |
| 2017/01/25 13:18 | 5.27       | 121.74     | 1.11           |
| 2017/01/25 13:33 | 5.30       | 106.94     | 0.97           |
| 2017/01/25 13:48 | 5.32       | 107.29     | 0.97           |
| 2017/01/25 14:03 | 5.32       | 108.96     | 0.99           |
| 2017/01/25 14:18 | 5.32       | 113.19     | 1.02           |
| 2017/01/25 14:33 | 5.32       | 108.96     | 0.99           |
| 2017/01/25 14:48 | 5.25       | 107.36     | 0.99           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 15:03 | 5.25       | 107.36     | 0.99           |
| 2017/01/25 15:18 | 5.27       | 103.12     | 0.94           |
| 2017/01/25 15:33 | 5.40       | 105.90     | 0.94           |
| 2017/01/25 15:48 | 5.27       | 111.04     | 1.01           |
| 2017/01/25 16:03 | 5.40       | 118.61     | 1.05           |
| 2017/01/25 16:18 | 5.47       | 139.17     | 1.22           |
| 2017/01/25 16:33 | 5.40       | 137.15     | 1.22           |
| 2017/01/25 16:48 | 5.40       | 137.15     | 1.22           |
| 2017/01/25 17:03 | 5.48       | 127.29     | 1.11           |
| 2017/01/25 17:18 | 5.48       | 127.29     | 1.11           |
| 2017/01/25 17:33 | 5.48       | 127.29     | 1.11           |
| 2017/01/25 17:48 | 5.51       | 129.79     | 1.13           |
| 2017/01/25 18:03 | 5.59       | 115.49     | 0.99           |
| 2017/01/25 18:18 | 5.79       | 136.87     | 1.13           |
| 2017/01/25 18:33 | 5.80       | 137.22     | 1.13           |
| 2017/01/25 18:48 | 5.80       | 137.22     | 1.13           |
| 2017/01/25 19:03 | 5.80       | 122.57     | 1.01           |
| 2017/01/25 19:18 | 5.80       | 167.50     | 1.38           |
| 2017/01/25 19:33 | 5.69       | 132.64     | 1.11           |
| 2017/01/25 19:48 | 5.69       | 168.06     | 1.41           |
| 2017/01/25 20:03 | 5.80       | 187.22     | 1.54           |
| 2017/01/25 20:18 | 5.69       | 183.33     | 1.54           |
| 2017/01/25 20:33 | 5.79       | 186.74     | 1.54           |
| 2017/01/25 20:48 | 5.86       | 194.37     | 1.58           |
| 2017/01/25 21:03 | 5.79       | 186.74     | 1.54           |
| 2017/01/25 21:18 | 5.57       | 177.36     | 1.52           |
| 2017/01/25 21:33 | 5.79       | 191.87     | 1.58           |
| 2017/01/25 21:48 | 5.57       | 173.33     | 1.49           |
| 2017/01/25 22:03 | 5.57       | 167.08     | 1.44           |
| 2017/01/25 22:18 | 5.62       | 168.89     | 1.44           |
| 2017/01/25 22:33 | 5.66       | 170.28     | 1.44           |
| 2017/01/25 22:48 | 5.62       | 165.69     | 1.41           |
| 2017/01/25 23:03 | 5.62       | 165.69     | 1.41           |
| 2017/01/25 23:18 | 5.19       | 134.31     | 1.25           |
| 2017/01/25 23:33 | 5.14       | 131.67     | 1.24           |
| 2017/01/25 23:48 | 5.14       | 124.72     | 1.17           |
| 2017/01/26 00:03 | 5.00       | 120.76     | 1.17           |
| 2017/01/26 00:18 | 4.89       | 117.64     | 1.17           |
| 2017/01/26 00:33 | 4.86       | 110.00     | 1.10           |
| 2017/01/26 00:48 | 4.57       | 103.96     | 1.12           |
| 2017/01/26 01:03 | 4.52       | 108.47     | 1.19           |
| 2017/01/26 01:18 | 4.44       | 106.04     | 1.19           |
| 2017/01/26 01:33 | 4.44       | 106.04     | 1.19           |
| 2017/01/26 01:48 | 4.37       | 104.51     | 1.19           |
| 2017/01/26 02:03 | 4.29       | 102.15     | 1.19           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 02:18 | 4.25       | 100.97     | 1.19           |
| 2017/01/26 02:33 | 4.25       | 100.83     | 1.19           |
| 2017/01/26 02:48 | 4.22       | 94.51      | 1.13           |
| 2017/01/26 03:03 | 4.22       | 94.51      | 1.13           |
| 2017/01/26 03:18 | 4.22       | 94.51      | 1.13           |
| 2017/01/26 03:33 | 4.18       | 96.25      | 1.16           |
| 2017/01/26 03:48 | 4.14       | 95.00      | 1.16           |
| 2017/01/26 04:03 | 4.14       | 107.15     | 1.31           |
| 2017/01/26 04:18 | 4.14       | 206.53     | 2.53           |
| 2017/01/26 04:33 | 4.27       | 111.67     | 1.31           |
| 2017/01/26 04:48 | 4.34       | 112.22     | 1.29           |
| 2017/01/26 05:03 | 4.34       | 112.22     | 1.29           |
| 2017/01/26 05:18 | 4.36       | 71.25      | 0.82           |
| 2017/01/26 05:33 | 4.57       | 75.42      | 0.82           |
| 2017/01/26 05:48 | 4.62       | 83.68      | 0.89           |
| 2017/01/26 06:03 | 4.76       | 79.37      | 0.82           |
| 2017/01/26 06:18 | 4.77       | 75.28      | 0.77           |
| 2017/01/26 06:33 | 4.82       | 63.61      | 0.65           |
| 2017/01/26 06:48 | 5.09       | 67.92      | 0.65           |
| 2017/01/26 07:03 | 5.40       | 72.64      | 0.65           |
| 2017/01/26 07:18 | 5.65       | 131.39     | 1.11           |
| 2017/01/26 07:33 | 5.73       | 177.64     | 1.48           |
| 2017/01/26 07:48 | 5.97       | 185.35     | 1.48           |
| 2017/01/26 08:03 | 5.97       | 197.78     | 1.58           |
| 2017/01/26 08:18 | 5.97       | 197.78     | 1.58           |
| 2017/01/26 08:33 | 5.43       | 178.19     | 1.57           |
| 2017/01/26 08:48 | 5.25       | 171.53     | 1.57           |
| 2017/01/26 09:03 | 5.22       | 170.49     | 1.57           |
| 2017/01/26 09:18 | 5.22       | 136.60     | 1.26           |
| 2017/01/26 09:33 | 5.12       | 133.68     | 1.26           |
| 2017/01/26 09:48 | 5.08       | 128.26     | 1.22           |
| 2017/01/26 10:03 | 5.08       | 118.47     | 1.13           |
| 2017/01/26 10:18 | 5.01       | 126.25     | 1.22           |
| 2017/01/26 10:33 | 5.01       | 132.08     | 1.28           |
| 2017/01/26 10:48 | 5.01       | 126.25     | 1.22           |
| 2017/01/26 11:03 | 4.91       | 129.03     | 1.28           |
| 2017/01/26 11:18 | 4.87       | 127.78     | 1.28           |
| 2017/01/26 11:33 | 5.04       | 137.99     | 1.33           |
| 2017/01/26 11:48 | 4.87       | 118.47     | 1.19           |
| 2017/01/26 12:03 | 4.86       | 118.06     | 1.19           |
| 2017/01/26 12:18 | 4.86       | 103.89     | 1.04           |
| 2017/01/26 12:33 | 4.82       | 101.32     | 1.03           |
| 2017/01/26 12:48 | 4.75       | 99.17      | 1.02           |
| 2017/01/26 13:03 | 4.75       | 99.58      | 1.03           |
| 2017/01/26 13:18 | 4.86       | 102.43     | 1.03           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 13:33 | 4.75       | 100.62     | 1.04           |
| 2017/01/26 13:48 | 4.75       | 100.62     | 1.04           |
| 2017/01/26 14:03 | 4.55       | 99.44      | 1.08           |
| 2017/01/26 14:18 | 4.55       | 99.44      | 1.08           |
| 2017/01/26 14:33 | 4.55       | 95.69      | 1.04           |
| 2017/01/26 14:48 | 4.69       | 103.19     | 1.08           |
| 2017/01/26 15:03 | 4.69       | 103.19     | 1.08           |
| 2017/01/26 15:18 | 4.79       | 95.90      | 0.98           |
| 2017/01/26 15:33 | 4.83       | 96.87      | 0.98           |
| 2017/01/26 15:48 | 4.97       | 102.99     | 1.01           |
| 2017/01/26 16:03 | 4.97       | 102.99     | 1.01           |
| 2017/01/26 16:18 | 4.97       | 104.37     | 1.02           |
| 2017/01/26 16:33 | 4.94       | 108.96     | 1.07           |
| 2017/01/26 16:48 | 4.94       | 141.67     | 1.39           |
| 2017/01/26 17:03 | 4.65       | 131.74     | 1.39           |
| 2017/01/26 17:18 | 4.94       | 141.67     | 1.39           |
| 2017/01/26 17:33 | 4.94       | 145.69     | 1.43           |
| 2017/01/26 17:48 | 4.97       | 146.67     | 1.43           |
| 2017/01/26 18:03 | 5.02       | 110.35     | 1.07           |
| 2017/01/26 18:18 | 5.18       | 142.22     | 1.33           |
| 2017/01/26 18:33 | 5.02       | 137.36     | 1.33           |
| 2017/01/26 18:48 | 5.09       | 124.51     | 1.18           |
| 2017/01/26 19:03 | 5.09       | 111.67     | 1.06           |
| 2017/01/26 19:18 | 5.09       | 111.67     | 1.06           |
| 2017/01/26 19:33 | 5.09       | 111.67     | 1.06           |
| 2017/01/26 19:48 | 5.21       | 116.11     | 1.08           |
| 2017/01/26 20:03 | 5.22       | 106.39     | 0.98           |
| 2017/01/26 20:18 | 5.22       | 116.46     | 1.08           |
| 2017/01/26 20:33 | 5.22       | 120.76     | 1.12           |
| 2017/01/26 20:48 | 5.21       | 116.11     | 1.08           |
| 2017/01/26 21:03 | 5.26       | 121.87     | 1.12           |
| 2017/01/26 21:18 | 5.25       | 134.79     | 1.24           |
| 2017/01/26 21:33 | 5.02       | 115.56     | 1.12           |
| 2017/01/26 21:48 | 5.02       | 114.44     | 1.10           |
| 2017/01/26 22:03 | 5.01       | 114.10     | 1.10           |
| 2017/01/26 22:18 | 4.98       | 112.85     | 1.10           |
| 2017/01/26 22:33 | 4.91       | 109.31     | 1.08           |
| 2017/01/26 22:48 | 4.91       | 103.61     | 1.03           |
| 2017/01/26 23:03 | 4.87       | 102.57     | 1.03           |
| 2017/01/26 23:18 | 4.61       | 95.97      | 1.03           |
| 2017/01/26 23:33 | 4.26       | 89.17      | 1.05           |
| 2017/01/26 23:48 | 4.15       | 86.25      | 1.05           |
| 2017/01/27 00:03 | 4.15       | 88.06      | 1.07           |
| 2017/01/27 00:18 | 4.14       | 91.53      | 1.12           |
| 2017/01/27 00:33 | 4.14       | 91.53      | 1.12           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 00:48 | 4.05       | 87.78      | 1.10           |
| 2017/01/27 01:03 | 3.98       | 87.29      | 1.12           |
| 2017/01/27 01:18 | 3.79       | 80.49      | 1.10           |
| 2017/01/27 01:33 | 3.71       | 78.19      | 1.10           |
| 2017/01/27 01:48 | 3.71       | 77.57      | 1.09           |
| 2017/01/27 02:03 | 3.71       | 78.68      | 1.11           |
| 2017/01/27 02:18 | 3.61       | 75.97      | 1.11           |
| 2017/01/27 02:33 | 3.61       | 75.97      | 1.11           |
| 2017/01/27 02:48 | 3.52       | 72.71      | 1.09           |
| 2017/01/27 03:03 | 3.44       | 64.44      | 1.00           |
| 2017/01/27 03:18 | 3.44       | 64.10      | 0.99           |
| 2017/01/27 03:33 | 3.39       | 62.78      | 0.99           |
| 2017/01/27 03:48 | 3.39       | 62.78      | 0.99           |
| 2017/01/27 04:03 | 3.48       | 69.93      | 1.07           |
| 2017/01/27 04:18 | 3.65       | 74.37      | 1.07           |
| 2017/01/27 04:33 | 3.65       | 74.37      | 1.07           |
| 2017/01/27 04:48 | 3.65       | 71.81      | 1.03           |
| 2017/01/27 05:03 | 3.79       | 75.35      | 1.03           |
| 2017/01/27 05:18 | 3.79       | 66.04      | 0.90           |
| 2017/01/27 05:33 | 3.79       | 66.04      | 0.90           |
| 2017/01/27 05:48 | 3.96       | 59.03      | 0.76           |
| 2017/01/27 06:03 | 4.01       | 60.07      | 0.76           |
| 2017/01/27 06:18 | 4.04       | 60.62      | 0.76           |
| 2017/01/27 06:33 | 4.15       | 68.75      | 0.84           |
| 2017/01/27 06:48 | 4.59       | 77.99      | 0.84           |
| 2017/01/27 07:03 | 4.79       | 100.62     | 1.03           |
| 2017/01/27 07:18 | 5.12       | 123.19     | 1.16           |
| 2017/01/27 07:33 | 5.12       | 142.22     | 1.34           |
| 2017/01/27 07:48 | 5.30       | 147.99     | 1.34           |
| 2017/01/27 08:03 | 5.30       | 175.42     | 1.59           |
| 2017/01/27 08:18 | 5.30       | 204.03     | 1.85           |
| 2017/01/27 08:33 | 5.30       | 204.03     | 1.85           |
| 2017/01/27 08:48 | 5.36       | 145.35     | 1.30           |
| 2017/01/27 09:03 | 5.30       | 121.46     | 1.10           |
| 2017/01/27 09:18 | 5.30       | 121.46     | 1.10           |
| 2017/01/27 09:33 | 5.23       | 119.65     | 1.10           |
| 2017/01/27 09:48 | 5.12       | 130.90     | 1.24           |
| 2017/01/27 10:03 | 5.12       | 138.89     | 1.31           |
| 2017/01/27 10:18 | 5.09       | 146.18     | 1.39           |
| 2017/01/27 10:33 | 5.09       | 155.35     | 1.48           |
| 2017/01/27 10:48 | 5.08       | 145.69     | 1.39           |
| 2017/01/27 11:03 | 5.09       | 146.18     | 1.39           |
| 2017/01/27 11:18 | 4.93       | 140.62     | 1.39           |
| 2017/01/27 11:33 | 4.89       | 129.86     | 1.30           |
| 2017/01/27 11:48 | 4.89       | 123.61     | 1.23           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 12:03 | 4.89       | 123.61     | 1.23           |
| 2017/01/27 12:18 | 4.89       | 115.49     | 1.15           |
| 2017/01/27 12:33 | 4.89       | 106.32     | 1.06           |
| 2017/01/27 12:48 | 4.89       | 99.86      | 1.00           |
| 2017/01/27 13:03 | 4.89       | 95.62      | 0.95           |
| 2017/01/27 13:18 | 4.75       | 87.01      | 0.90           |
| 2017/01/27 13:33 | 4.86       | 82.99      | 0.83           |
| 2017/01/27 13:48 | 4.55       | 76.74      | 0.83           |
| 2017/01/27 14:03 | 4.55       | 82.78      | 0.90           |
| 2017/01/27 14:18 | 4.55       | 82.78      | 0.90           |
| 2017/01/27 14:33 | 4.55       | 94.72      | 1.03           |
| 2017/01/27 14:48 | 4.54       | 94.31      | 1.03           |
| 2017/01/27 15:03 | 4.54       | 94.31      | 1.03           |
| 2017/01/27 15:18 | 4.54       | 94.31      | 1.03           |
| 2017/01/27 15:33 | 4.55       | 94.72      | 1.03           |
| 2017/01/27 15:48 | 4.71       | 81.04      | 0.85           |
| 2017/01/27 16:03 | 4.80       | 102.08     | 1.04           |
| 2017/01/27 16:18 | 4.80       | 109.10     | 1.11           |
| 2017/01/27 16:33 | 4.73       | 120.49     | 1.25           |
| 2017/01/27 16:48 | 4.73       | 107.78     | 1.12           |
| 2017/01/27 17:03 | 4.73       | 120.49     | 1.25           |
| 2017/01/27 17:18 | 4.73       | 123.68     | 1.28           |
| 2017/01/27 17:33 | 4.79       | 124.58     | 1.27           |
| 2017/01/27 17:48 | 4.86       | 127.64     | 1.28           |
| 2017/01/27 18:03 | 5.00       | 131.94     | 1.28           |
| 2017/01/27 18:18 | 5.00       | 130.97     | 1.27           |
| 2017/01/27 18:33 | 5.00       | 130.97     | 1.27           |
| 2017/01/27 18:48 | 5.18       | 148.47     | 1.38           |
| 2017/01/27 19:03 | 5.18       | 130.42     | 1.22           |
| 2017/01/27 19:18 | 5.18       | 130.42     | 1.22           |
| 2017/01/27 19:33 | 5.29       | 152.08     | 1.38           |
| 2017/01/27 19:48 | 5.18       | 139.10     | 1.30           |
| 2017/01/27 20:03 | 5.00       | 133.47     | 1.30           |
| 2017/01/27 20:18 | 4.87       | 130.62     | 1.31           |
| 2017/01/27 20:33 | 4.65       | 123.54     | 1.31           |
| 2017/01/27 20:48 | 4.65       | 123.54     | 1.31           |
| 2017/01/27 21:03 | 4.80       | 132.29     | 1.35           |
| 2017/01/27 21:18 | 4.75       | 126.67     | 1.31           |
| 2017/01/27 21:33 | 4.75       | 130.49     | 1.35           |
| 2017/01/27 21:48 | 4.75       | 130.49     | 1.35           |
| 2017/01/27 22:03 | 4.73       | 118.40     | 1.23           |
| 2017/01/27 22:18 | 4.73       | 104.86     | 1.09           |
| 2017/01/27 22:33 | 4.64       | 108.61     | 1.15           |
| 2017/01/27 22:48 | 4.73       | 97.64      | 1.01           |
| 2017/01/27 23:03 | 4.62       | 94.86      | 1.01           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 23:18 | 4.61       | 107.78     | 1.15           |
| 2017/01/27 23:33 | 4.57       | 106.60     | 1.15           |
| 2017/01/27 23:48 | 4.57       | 96.87      | 1.05           |
| 2017/01/28 00:03 | 4.47       | 104.10     | 1.16           |
| 2017/01/28 00:18 | 4.44       | 93.61      | 1.05           |
| 2017/01/28 00:33 | 4.07       | 75.28      | 0.94           |
| 2017/01/28 00:48 | 3.94       | 72.36      | 0.94           |
| 2017/01/28 01:03 | 3.89       | 77.29      | 1.02           |
| 2017/01/28 01:18 | 3.79       | 74.79      | 1.02           |
| 2017/01/28 01:33 | 3.79       | 94.24      | 1.29           |
| 2017/01/28 01:48 | 3.59       | 135.07     | 1.98           |
| 2017/01/28 02:03 | 3.59       | 135.07     | 1.98           |
| 2017/01/28 02:18 | 3.59       | 118.40     | 1.73           |
| 2017/01/28 02:33 | 3.58       | 114.58     | 1.69           |
| 2017/01/28 02:48 | 3.43       | 111.25     | 1.73           |
| 2017/01/28 03:03 | 3.41       | 107.64     | 1.69           |
| 2017/01/28 03:18 | 3.41       | 107.64     | 1.69           |
| 2017/01/28 03:33 | 3.39       | 106.46     | 1.69           |
| 2017/01/28 03:48 | 3.26       | 91.87      | 1.53           |
| 2017/01/28 04:03 | 3.37       | 65.56      | 1.05           |
| 2017/01/28 04:18 | 3.37       | 65.56      | 1.05           |
| 2017/01/28 04:33 | 3.37       | 63.40      | 1.01           |
| 2017/01/28 04:48 | 3.37       | 61.94      | 0.99           |
| 2017/01/28 05:03 | 3.44       | 65.14      | 1.01           |
| 2017/01/28 05:18 | 3.51       | 70.21      | 1.06           |
| 2017/01/28 05:33 | 3.61       | 75.00      | 1.09           |
| 2017/01/28 05:48 | 3.64       | 75.76      | 1.09           |
| 2017/01/28 06:03 | 3.64       | 75.76      | 1.09           |
| 2017/01/28 06:18 | 3.64       | 55.90      | 0.81           |
| 2017/01/28 06:33 | 3.64       | 55.90      | 0.81           |
| 2017/01/28 06:48 | 3.64       | 55.90      | 0.81           |
| 2017/01/28 07:03 | 3.76       | 73.47      | 1.01           |
| 2017/01/28 07:18 | 3.83       | 75.21      | 1.01           |
| 2017/01/28 07:33 | 4.02       | 90.83      | 1.15           |
| 2017/01/28 07:48 | 4.14       | 101.67     | 1.24           |
| 2017/01/28 08:03 | 4.16       | 102.50     | 1.24           |
| 2017/01/28 08:18 | 4.61       | 112.22     | 1.20           |
| 2017/01/28 08:33 | 4.73       | 115.90     | 1.20           |
| 2017/01/28 08:48 | 4.73       | 102.78     | 1.07           |
| 2017/01/28 09:03 | 4.73       | 102.78     | 1.07           |
| 2017/01/28 09:18 | 4.82       | 104.93     | 1.07           |
| 2017/01/28 09:33 | 5.07       | 119.10     | 1.14           |
| 2017/01/28 09:48 | 5.07       | 119.10     | 1.14           |
| 2017/01/28 10:03 | 5.07       | 119.10     | 1.14           |
| 2017/01/28 10:18 | 5.07       | 119.10     | 1.14           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 10:33 | 5.11       | 164.03     | 1.55           |
| 2017/01/28 10:48 | 5.14       | 149.86     | 1.41           |
| 2017/01/28 11:03 | 5.26       | 169.72     | 1.55           |
| 2017/01/28 11:18 | 5.26       | 169.72     | 1.55           |
| 2017/01/28 11:33 | 5.18       | 151.87     | 1.42           |
| 2017/01/28 11:48 | 5.18       | 151.87     | 1.42           |
| 2017/01/28 12:03 | 5.18       | 151.87     | 1.42           |
| 2017/01/28 12:18 | 5.11       | 138.61     | 1.31           |
| 2017/01/28 12:33 | 5.12       | 139.03     | 1.31           |
| 2017/01/28 12:48 | 5.12       | 166.04     | 1.57           |
| 2017/01/28 13:03 | 5.12       | 149.51     | 1.41           |
| 2017/01/28 13:18 | 5.15       | 150.49     | 1.41           |
| 2017/01/28 13:33 | 5.15       | 150.49     | 1.41           |
| 2017/01/28 13:48 | 5.15       | 115.97     | 1.09           |
| 2017/01/28 14:03 | 4.91       | 101.04     | 1.00           |
| 2017/01/28 14:18 | 4.91       | 101.04     | 1.00           |
| 2017/01/28 14:33 | 4.89       | 100.35     | 1.00           |
| 2017/01/28 14:48 | 4.90       | 106.53     | 1.06           |
| 2017/01/28 15:03 | 4.89       | 106.18     | 1.06           |
| 2017/01/28 15:18 | 4.73       | 102.78     | 1.07           |
| 2017/01/28 15:33 | 4.73       | 102.78     | 1.07           |
| 2017/01/28 15:48 | 4.73       | 102.78     | 1.07           |
| 2017/01/28 16:03 | 4.64       | 100.28     | 1.07           |
| 2017/01/28 16:18 | 4.73       | 111.32     | 1.15           |
| 2017/01/28 16:33 | 4.80       | 130.69     | 1.33           |
| 2017/01/28 16:48 | 4.96       | 135.62     | 1.33           |
| 2017/01/28 17:03 | 5.23       | 145.49     | 1.34           |
| 2017/01/28 17:18 | 5.23       | 160.69     | 1.48           |
| 2017/01/28 17:33 | 5.26       | 161.67     | 1.48           |
| 2017/01/28 17:48 | 5.26       | 157.01     | 1.44           |
| 2017/01/28 18:03 | 5.15       | 153.19     | 1.44           |
| 2017/01/28 18:18 | 5.15       | 153.19     | 1.44           |
| 2017/01/28 18:33 | 5.15       | 108.19     | 1.01           |
| 2017/01/28 18:48 | 5.15       | 115.14     | 1.08           |
| 2017/01/28 19:03 | 5.15       | 115.14     | 1.08           |
| 2017/01/28 19:18 | 5.09       | 122.22     | 1.16           |
| 2017/01/28 19:33 | 5.09       | 122.22     | 1.16           |
| 2017/01/28 19:48 | 5.01       | 119.93     | 1.16           |
| 2017/01/28 20:03 | 5.01       | 143.89     | 1.39           |
| 2017/01/28 20:18 | 4.96       | 142.01     | 1.39           |
| 2017/01/28 20:33 | 5.01       | 143.89     | 1.39           |
| 2017/01/28 20:48 | 5.01       | 128.40     | 1.24           |
| 2017/01/28 21:03 | 5.19       | 157.15     | 1.46           |
| 2017/01/28 21:18 | 4.90       | 125.07     | 1.24           |
| 2017/01/28 21:33 | 5.00       | 127.99     | 1.24           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 21:48 | 4.69       | 117.01     | 1.23           |
| 2017/01/28 22:03 | 4.69       | 113.06     | 1.18           |
| 2017/01/28 22:18 | 4.69       | 92.99      | 0.97           |
| 2017/01/28 22:33 | 4.75       | 90.76      | 0.94           |
| 2017/01/28 22:48 | 4.69       | 113.06     | 1.18           |
| 2017/01/28 23:03 | 4.46       | 103.96     | 1.16           |
| 2017/01/28 23:18 | 4.51       | 95.56      | 1.05           |
| 2017/01/28 23:33 | 4.51       | 95.56      | 1.05           |
| 2017/01/28 23:48 | 4.46       | 94.10      | 1.05           |
| 2017/01/29 00:03 | 4.27       | 87.99      | 1.03           |
| 2017/01/29 00:18 | 4.27       | 87.99      | 1.03           |
| 2017/01/29 00:33 | 4.26       | 87.64      | 1.03           |
| 2017/01/29 00:48 | 4.18       | 94.58      | 1.14           |
| 2017/01/29 01:03 | 3.94       | 87.85      | 1.14           |
| 2017/01/29 01:18 | 3.93       | 87.50      | 1.14           |
| 2017/01/29 01:33 | 3.84       | 85.07      | 1.14           |
| 2017/01/29 01:48 | 3.80       | 80.62      | 1.10           |
| 2017/01/29 02:03 | 3.79       | 73.96      | 1.01           |
| 2017/01/29 02:18 | 3.79       | 71.81      | 0.98           |
| 2017/01/29 02:33 | 3.73       | 72.50      | 1.01           |
| 2017/01/29 02:48 | 3.69       | 71.46      | 1.01           |
| 2017/01/29 03:03 | 3.69       | 70.49      | 1.00           |
| 2017/01/29 03:18 | 3.62       | 77.64      | 1.13           |
| 2017/01/29 03:33 | 3.62       | 97.92      | 1.42           |
| 2017/01/29 03:48 | 3.59       | 96.94      | 1.42           |
| 2017/01/29 04:03 | 3.52       | 94.51      | 1.42           |
| 2017/01/29 04:18 | 3.52       | 94.51      | 1.42           |
| 2017/01/29 04:33 | 3.52       | 81.60      | 1.23           |
| 2017/01/29 04:48 | 3.52       | 79.58      | 1.20           |
| 2017/01/29 05:03 | 3.50       | 78.75      | 1.20           |
| 2017/01/29 05:18 | 3.50       | 76.74      | 1.17           |
| 2017/01/29 05:33 | 3.54       | 73.06      | 1.09           |
| 2017/01/29 05:48 | 3.72       | 76.18      | 1.07           |
| 2017/01/29 06:03 | 3.84       | 72.36      | 0.97           |
| 2017/01/29 06:18 | 3.87       | 72.15      | 0.96           |
| 2017/01/29 06:33 | 3.87       | 72.15      | 0.96           |
| 2017/01/29 06:48 | 3.91       | 74.03      | 0.97           |
| 2017/01/29 07:03 | 3.97       | 75.42      | 0.97           |
| 2017/01/29 07:18 | 4.14       | 85.14      | 1.04           |
| 2017/01/29 07:33 | 4.18       | 86.25      | 1.04           |
| 2017/01/29 07:48 | 4.18       | 85.00      | 1.03           |
| 2017/01/29 08:03 | 4.34       | 73.19      | 0.84           |
| 2017/01/29 08:18 | 4.44       | 91.74      | 1.03           |
| 2017/01/29 08:33 | 4.50       | 93.12      | 1.03           |
| 2017/01/29 08:48 | 4.76       | 105.90     | 1.09           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 09:03 | 4.89       | 140.14     | 1.40           |
| 2017/01/29 09:18 | 4.91       | 141.04     | 1.40           |
| 2017/01/29 09:33 | 5.05       | 145.76     | 1.40           |
| 2017/01/29 09:48 | 5.02       | 173.75     | 1.68           |
| 2017/01/29 10:03 | 5.02       | 160.76     | 1.55           |
| 2017/01/29 10:18 | 4.91       | 135.83     | 1.35           |
| 2017/01/29 10:33 | 5.02       | 139.44     | 1.35           |
| 2017/01/29 10:48 | 5.02       | 160.76     | 1.55           |
| 2017/01/29 11:03 | 5.21       | 145.28     | 1.35           |
| 2017/01/29 11:18 | 5.21       | 145.28     | 1.35           |
| 2017/01/29 11:33 | 5.21       | 130.07     | 1.21           |
| 2017/01/29 11:48 | 5.08       | 162.36     | 1.55           |
| 2017/01/29 12:03 | 5.08       | 126.53     | 1.21           |
| 2017/01/29 12:18 | 5.01       | 118.82     | 1.15           |
| 2017/01/29 12:33 | 5.01       | 109.03     | 1.06           |
| 2017/01/29 12:48 | 5.08       | 110.83     | 1.06           |
| 2017/01/29 13:03 | 5.08       | 110.83     | 1.06           |
| 2017/01/29 13:18 | 4.93       | 130.56     | 1.29           |
| 2017/01/29 13:33 | 5.08       | 139.93     | 1.33           |
| 2017/01/29 13:48 | 5.08       | 139.93     | 1.33           |
| 2017/01/29 14:03 | 4.93       | 135.00     | 1.33           |
| 2017/01/29 14:18 | 4.93       | 137.64     | 1.36           |
| 2017/01/29 14:33 | 4.89       | 117.92     | 1.18           |
| 2017/01/29 14:48 | 4.89       | 99.44      | 0.99           |
| 2017/01/29 15:03 | 4.89       | 99.44      | 0.99           |
| 2017/01/29 15:18 | 4.86       | 107.08     | 1.08           |
| 2017/01/29 15:33 | 4.86       | 107.08     | 1.08           |
| 2017/01/29 15:48 | 4.86       | 115.14     | 1.16           |
| 2017/01/29 16:03 | 4.93       | 135.00     | 1.33           |
| 2017/01/29 16:18 | 4.94       | 139.65     | 1.37           |
| 2017/01/29 16:33 | 5.00       | 141.53     | 1.37           |
| 2017/01/29 16:48 | 5.00       | 141.53     | 1.37           |
| 2017/01/29 17:03 | 5.19       | 148.75     | 1.38           |
| 2017/01/29 17:18 | 5.19       | 148.75     | 1.38           |
| 2017/01/29 17:33 | 5.19       | 136.11     | 1.26           |
| 2017/01/29 17:48 | 5.09       | 110.69     | 1.05           |
| 2017/01/29 18:03 | 5.09       | 110.69     | 1.05           |
| 2017/01/29 18:18 | 5.02       | 107.85     | 1.04           |
| 2017/01/29 18:33 | 5.09       | 110.69     | 1.05           |
| 2017/01/29 18:48 | 5.15       | 121.81     | 1.14           |
| 2017/01/29 19:03 | 5.21       | 133.75     | 1.24           |
| 2017/01/29 19:18 | 5.22       | 135.49     | 1.25           |
| 2017/01/29 19:33 | 5.25       | 162.36     | 1.49           |
| 2017/01/29 19:48 | 5.26       | 180.69     | 1.65           |
| 2017/01/29 20:03 | 5.26       | 182.50     | 1.67           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 20:18 | 5.26       | 182.50     | 1.67           |
| 2017/01/29 20:33 | 5.22       | 203.82     | 1.88           |
| 2017/01/29 20:48 | 5.15       | 178.12     | 1.67           |
| 2017/01/29 21:03 | 5.15       | 167.85     | 1.57           |
| 2017/01/29 21:18 | 5.11       | 160.35     | 1.52           |
| 2017/01/29 21:33 | 5.01       | 149.51     | 1.45           |
| 2017/01/29 21:48 | 4.94       | 117.22     | 1.15           |
| 2017/01/29 22:03 | 4.89       | 115.62     | 1.15           |
| 2017/01/29 22:18 | 4.89       | 115.62     | 1.15           |
| 2017/01/29 22:33 | 4.83       | 99.58      | 1.01           |
| 2017/01/29 22:48 | 4.79       | 112.92     | 1.15           |
| 2017/01/29 23:03 | 4.65       | 110.00     | 1.16           |
| 2017/01/29 23:18 | 4.51       | 105.97     | 1.16           |
| 2017/01/29 23:33 | 4.43       | 103.47     | 1.16           |
| 2017/01/29 23:48 | 3.91       | 88.68      | 1.16           |
| 2017/01/30 00:03 | 3.91       | 88.61      | 1.16           |
| 2017/01/30 00:18 | 3.91       | 88.61      | 1.16           |
| 2017/01/30 00:33 | 3.77       | 88.47      | 1.22           |
| 2017/01/30 00:48 | 3.80       | 89.31      | 1.22           |
| 2017/01/30 01:03 | 3.80       | 84.58      | 1.15           |
| 2017/01/30 01:18 | 3.77       | 88.47      | 1.22           |
| 2017/01/30 01:33 | 3.65       | 80.21      | 1.15           |
| 2017/01/30 01:48 | 3.46       | 68.61      | 1.06           |
| 2017/01/30 02:03 | 3.46       | 74.65      | 1.15           |
| 2017/01/30 02:18 | 3.54       | 92.01      | 1.38           |
| 2017/01/30 02:33 | 3.46       | 68.61      | 1.06           |
| 2017/01/30 02:48 | 3.40       | 62.99      | 0.99           |
| 2017/01/30 03:03 | 3.40       | 62.99      | 0.99           |
| 2017/01/30 03:18 | 3.29       | 60.28      | 0.99           |
| 2017/01/30 03:33 | 3.29       | 60.28      | 0.99           |
| 2017/01/30 03:48 | 3.40       | 63.68      | 1.00           |
| 2017/01/30 04:03 | 3.29       | 66.94      | 1.10           |
| 2017/01/30 04:18 | 3.52       | 80.07      | 1.20           |
| 2017/01/30 04:33 | 3.52       | 86.87      | 1.31           |
| 2017/01/30 04:48 | 3.64       | 90.49      | 1.31           |
| 2017/01/30 05:03 | 3.64       | 87.50      | 1.26           |
| 2017/01/30 05:18 | 3.73       | 86.32      | 1.20           |
| 2017/01/30 05:33 | 3.73       | 68.40      | 0.95           |
| 2017/01/30 05:48 | 3.84       | 66.11      | 0.89           |
| 2017/01/30 06:03 | 4.04       | 61.81      | 0.78           |
| 2017/01/30 06:18 | 4.34       | 73.19      | 0.84           |
| 2017/01/30 06:33 | 4.41       | 74.65      | 0.84           |
| 2017/01/30 06:48 | 4.89       | 84.44      | 0.84           |
| 2017/01/30 07:03 | 5.26       | 138.19     | 1.26           |
| 2017/01/30 07:18 | 5.26       | 182.85     | 1.67           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 07:33 | 5.46       | 191.04     | 1.68           |
| 2017/01/30 07:48 | 5.46       | 190.49     | 1.67           |
| 2017/01/30 08:03 | 5.33       | 186.11     | 1.68           |
| 2017/01/30 08:18 | 5.22       | 181.74     | 1.68           |
| 2017/01/30 08:33 | 5.22       | 170.62     | 1.58           |
| 2017/01/30 08:48 | 5.18       | 169.10     | 1.58           |
| 2017/01/30 09:03 | 5.18       | 176.25     | 1.64           |
| 2017/01/30 09:18 | 5.18       | 169.10     | 1.58           |
| 2017/01/30 09:33 | 4.90       | 158.54     | 1.58           |
| 2017/01/30 09:48 | 4.90       | 148.68     | 1.48           |
| 2017/01/30 10:03 | 4.90       | 136.74     | 1.36           |
| 2017/01/30 10:18 | 4.90       | 126.94     | 1.26           |
| 2017/01/30 10:33 | 4.90       | 126.94     | 1.26           |
| 2017/01/30 10:48 | 4.80       | 118.06     | 1.20           |
| 2017/01/30 11:03 | 4.80       | 118.06     | 1.20           |
| 2017/01/30 11:18 | 4.84       | 130.83     | 1.32           |
| 2017/01/30 11:33 | 4.80       | 129.44     | 1.32           |
| 2017/01/30 11:48 | 4.58       | 122.29     | 1.32           |
| 2017/01/30 12:03 | 4.84       | 130.83     | 1.32           |
| 2017/01/30 12:18 | 4.83       | 106.67     | 1.08           |
| 2017/01/30 12:33 | 4.83       | 100.35     | 1.01           |
| 2017/01/30 12:48 | 4.90       | 102.08     | 1.01           |
| 2017/01/30 13:03 | 4.90       | 102.08     | 1.01           |
| 2017/01/30 13:18 | 4.90       | 123.06     | 1.22           |
| 2017/01/30 13:33 | 4.90       | 140.56     | 1.40           |
| 2017/01/30 13:48 | 4.77       | 136.32     | 1.40           |
| 2017/01/30 14:03 | 4.66       | 132.50     | 1.40           |
| 2017/01/30 14:18 | 4.66       | 124.24     | 1.31           |
| 2017/01/30 14:33 | 4.66       | 120.35     | 1.27           |
| 2017/01/30 14:48 | 4.66       | 105.49     | 1.11           |
| 2017/01/30 15:03 | 4.68       | 104.65     | 1.10           |
| 2017/01/30 15:18 | 4.69       | 106.25     | 1.11           |
| 2017/01/30 15:33 | 4.69       | 105.07     | 1.10           |
| 2017/01/30 15:48 | 4.69       | 81.04      | 0.85           |
| 2017/01/30 16:03 | 4.57       | 78.40      | 0.85           |
| 2017/01/30 16:18 | 4.57       | 82.92      | 0.90           |
| 2017/01/30 16:33 | 4.44       | 79.17      | 0.89           |
| 2017/01/30 16:48 | 4.44       | 80.14      | 0.90           |
| 2017/01/30 17:03 | 4.44       | 108.89     | 1.22           |
| 2017/01/30 17:18 | 4.44       | 108.89     | 1.22           |
| 2017/01/30 17:33 | 4.44       | 108.89     | 1.22           |
| 2017/01/30 17:48 | 4.46       | 109.31     | 1.22           |
| 2017/01/30 18:03 | 4.59       | 125.97     | 1.35           |
| 2017/01/30 18:18 | 4.62       | 130.76     | 1.39           |
| 2017/01/30 18:33 | 4.65       | 131.74     | 1.39           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 18:48 | 4.65       | 116.32     | 1.23           |
| 2017/01/30 19:03 | 4.79       | 138.75     | 1.42           |
| 2017/01/30 19:18 | 4.83       | 127.99     | 1.29           |
| 2017/01/30 19:33 | 4.93       | 131.04     | 1.29           |
| 2017/01/30 19:48 | 5.16       | 138.33     | 1.29           |
| 2017/01/30 20:03 | 5.05       | 156.87     | 1.50           |
| 2017/01/30 20:18 | 5.22       | 140.07     | 1.29           |
| 2017/01/30 20:33 | 5.25       | 163.89     | 1.50           |
| 2017/01/30 20:48 | 5.25       | 130.14     | 1.19           |
| 2017/01/30 21:03 | 5.29       | 131.32     | 1.19           |
| 2017/01/30 21:18 | 5.29       | 117.71     | 1.07           |
| 2017/01/30 21:33 | 5.34       | 132.85     | 1.19           |
| 2017/01/30 21:48 | 5.29       | 131.32     | 1.19           |
| 2017/01/30 22:03 | 5.00       | 110.28     | 1.07           |
| 2017/01/30 22:18 | 4.97       | 138.89     | 1.36           |
| 2017/01/30 22:33 | 4.72       | 130.62     | 1.36           |
| 2017/01/30 22:48 | 4.47       | 93.82      | 1.04           |
| 2017/01/30 23:03 | 4.47       | 93.82      | 1.04           |
| 2017/01/30 23:18 | 4.47       | 122.22     | 1.36           |
| 2017/01/30 23:33 | 4.44       | 91.04      | 1.02           |
| 2017/01/30 23:48 | 4.44       | 91.04      | 1.02           |
| 2017/01/31 00:03 | 4.25       | 96.81      | 1.15           |
| 2017/01/31 00:18 | 4.08       | 87.99      | 1.10           |
| 2017/01/31 00:33 | 4.08       | 87.99      | 1.10           |
| 2017/01/31 00:48 | 3.96       | 84.58      | 1.10           |
| 2017/01/31 01:03 | 3.71       | 77.78      | 1.10           |
| 2017/01/31 01:18 | 3.71       | 77.78      | 1.10           |
| 2017/01/31 01:33 | 3.79       | 79.37      | 1.09           |
| 2017/01/31 01:48 | 3.79       | 79.37      | 1.09           |
| 2017/01/31 02:03 | 3.79       | 80.97      | 1.11           |
| 2017/01/31 02:18 | 3.79       | 84.72      | 1.16           |
| 2017/01/31 02:33 | 3.72       | 79.03      | 1.11           |
| 2017/01/31 02:48 | 3.71       | 78.68      | 1.11           |
| 2017/01/31 03:03 | 3.69       | 72.78      | 1.03           |
| 2017/01/31 03:18 | 3.71       | 73.12      | 1.03           |
| 2017/01/31 03:33 | 3.59       | 70.28      | 1.03           |
| 2017/01/31 03:48 | 3.59       | 70.42      | 1.03           |
| 2017/01/31 04:03 | 3.59       | 73.40      | 1.08           |
| 2017/01/31 04:18 | 3.61       | 74.93      | 1.09           |
| 2017/01/31 04:33 | 3.61       | 74.93      | 1.09           |
| 2017/01/31 04:48 | 3.62       | 71.11      | 1.03           |
| 2017/01/31 05:03 | 3.69       | 77.22      | 1.09           |
| 2017/01/31 05:18 | 3.79       | 61.67      | 0.84           |
| 2017/01/31 05:33 | 3.79       | 61.67      | 0.84           |
| 2017/01/31 05:48 | 3.86       | 83.68      | 1.12           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 06:03 | 4.01       | 87.92      | 1.12           |
| 2017/01/31 06:18 | 4.68       | 111.39     | 1.17           |
| 2017/01/31 06:33 | 4.68       | 111.39     | 1.17           |
| 2017/01/31 06:48 | 4.82       | 115.35     | 1.17           |
| 2017/01/31 07:03 | 4.90       | 138.61     | 1.38           |
| 2017/01/31 07:18 | 5.26       | 193.89     | 1.77           |
| 2017/01/31 07:33 | 5.26       | 193.89     | 1.77           |
| 2017/01/31 07:48 | 5.27       | 194.44     | 1.77           |
| 2017/01/31 08:03 | 5.27       | 189.58     | 1.73           |
| 2017/01/31 08:18 | 5.30       | 173.75     | 1.58           |
| 2017/01/31 08:33 | 5.27       | 157.36     | 1.44           |
| 2017/01/31 08:48 | 5.27       | 130.07     | 1.19           |
| 2017/01/31 09:03 | 5.21       | 128.12     | 1.19           |
| 2017/01/31 09:18 | 5.05       | 123.82     | 1.19           |
| 2017/01/31 09:33 | 5.05       | 123.82     | 1.19           |
| 2017/01/31 09:48 | 5.05       | 123.82     | 1.19           |
| 2017/01/31 10:03 | 5.05       | 112.99     | 1.08           |
| 2017/01/31 10:18 | 5.07       | 129.31     | 1.24           |
| 2017/01/31 10:33 | 5.08       | 115.42     | 1.10           |
| 2017/01/31 10:48 | 5.08       | 115.42     | 1.10           |
| 2017/01/31 11:03 | 5.07       | 114.44     | 1.09           |
| 2017/01/31 11:18 | 5.07       | 115.07     | 1.10           |
| 2017/01/31 11:33 | 5.07       | 114.44     | 1.09           |
| 2017/01/31 11:48 | 5.02       | 111.11     | 1.07           |
| 2017/01/31 12:03 | 5.02       | 85.21      | 0.82           |
| 2017/01/31 12:18 | 5.02       | 85.21      | 0.82           |
| 2017/01/31 12:33 | 5.07       | 86.04      | 0.82           |
| 2017/01/31 12:48 | 5.07       | 86.04      | 0.82           |
| 2017/01/31 13:03 | 5.07       | 95.28      | 0.91           |
| 2017/01/31 13:18 | 5.01       | 102.08     | 0.99           |
| 2017/01/31 13:33 | 4.97       | 113.61     | 1.11           |
| 2017/01/31 13:48 | 4.82       | 97.43      | 0.99           |
| 2017/01/31 14:03 | 4.77       | 96.46      | 0.99           |
| 2017/01/31 14:18 | 4.77       | 90.35      | 0.93           |
| 2017/01/31 14:33 | 4.61       | 84.24      | 0.90           |
| 2017/01/31 14:48 | 4.61       | 81.11      | 0.87           |
| 2017/01/31 15:03 | 4.61       | 81.11      | 0.87           |
| 2017/01/31 15:18 | 4.71       | 83.19      | 0.87           |
| 2017/01/31 15:33 | 4.79       | 85.00      | 0.87           |
| 2017/01/31 15:48 | 4.83       | 100.97     | 1.02           |
| 2017/01/31 16:03 | 4.84       | 101.32     | 1.02           |
| 2017/01/31 16:18 | 4.84       | 97.99      | 0.99           |
| 2017/01/31 16:33 | 4.83       | 89.51      | 0.90           |
| 2017/01/31 16:48 | 4.79       | 90.97      | 0.93           |
| 2017/01/31 17:03 | 4.79       | 88.54      | 0.90           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 17:18 | 4.79       | 88.54      | 0.90           |
| 2017/01/31 17:33 | 4.79       | 88.54      | 0.90           |
| 2017/01/31 17:48 | 4.80       | 91.25      | 0.93           |
| 2017/01/31 18:03 | 5.18       | 116.04     | 1.08           |
| 2017/01/31 18:18 | 5.25       | 137.64     | 1.26           |
| 2017/01/31 18:33 | 5.25       | 137.64     | 1.26           |
| 2017/01/31 18:48 | 5.25       | 145.56     | 1.34           |
| 2017/01/31 19:03 | 5.25       | 145.56     | 1.34           |
| 2017/01/31 19:18 | 5.29       | 135.35     | 1.23           |
| 2017/01/31 19:33 | 5.32       | 136.11     | 1.23           |
| 2017/01/31 19:48 | 5.32       | 151.32     | 1.37           |
| 2017/01/31 20:03 | 5.44       | 139.72     | 1.23           |
| 2017/01/31 20:18 | 5.44       | 121.74     | 1.07           |
| 2017/01/31 20:33 | 5.34       | 102.01     | 0.92           |
| 2017/01/31 20:48 | 5.34       | 102.01     | 0.92           |
| 2017/01/31 21:03 | 5.25       | 99.86      | 0.92           |
| 2017/01/31 21:18 | 5.11       | 101.87     | 0.96           |
| 2017/01/31 21:33 | 5.08       | 135.97     | 1.30           |
| 2017/01/31 21:48 | 5.00       | 133.33     | 1.30           |
| 2017/01/31 22:03 | 4.97       | 132.50     | 1.30           |
| 2017/01/31 22:18 | 4.97       | 132.50     | 1.30           |
| 2017/01/31 22:33 | 4.97       | 120.00     | 1.17           |
| 2017/01/31 22:48 | 4.82       | 115.07     | 1.17           |
| 2017/01/31 23:03 | 4.82       | 101.94     | 1.03           |
| 2017/01/31 23:18 | 4.82       | 94.72      | 0.96           |
| 2017/01/31 23:33 | 4.43       | 84.31      | 0.95           |
| 2017/01/31 23:48 | 4.40       | 83.68      | 0.95           |
| 2017/02/01 00:03 | 4.37       | 84.24      | 0.96           |
| 2017/02/01 00:18 | 4.25       | 87.92      | 1.04           |
| 2017/02/01 00:33 | 4.05       | 87.36      | 1.10           |
| 2017/02/01 00:48 | 4.05       | 93.82      | 1.18           |
| 2017/02/01 01:03 | 4.01       | 92.57      | 1.18           |
| 2017/02/01 01:18 | 3.83       | 104.93     | 1.42           |
| 2017/02/01 01:33 | 3.83       | 87.29      | 1.18           |
| 2017/02/01 01:48 | 3.83       | 80.62      | 1.09           |
| 2017/02/01 02:03 | 3.83       | 80.62      | 1.09           |
| 2017/02/01 02:18 | 3.83       | 98.40      | 1.33           |
| 2017/02/01 02:33 | 3.69       | 82.50      | 1.17           |
| 2017/02/01 02:48 | 3.69       | 82.50      | 1.17           |
| 2017/02/01 03:03 | 3.64       | 91.94      | 1.33           |
| 2017/02/01 03:18 | 3.58       | 92.85      | 1.37           |
| 2017/02/01 03:33 | 3.58       | 92.85      | 1.37           |
| 2017/02/01 03:48 | 3.44       | 88.12      | 1.37           |
| 2017/02/01 04:03 | 3.44       | 88.12      | 1.37           |
| 2017/02/01 04:18 | 3.44       | 81.74      | 1.27           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 04:33 | 3.55       | 74.44      | 1.11           |
| 2017/02/01 04:48 | 3.62       | 76.39      | 1.11           |
| 2017/02/01 05:03 | 3.69       | 78.26      | 1.11           |
| 2017/02/01 05:18 | 3.75       | 79.79      | 1.11           |
| 2017/02/01 05:33 | 3.93       | 83.61      | 1.09           |
| 2017/02/01 05:48 | 4.01       | 85.90      | 1.09           |
| 2017/02/01 06:03 | 4.25       | 85.83      | 1.02           |
| 2017/02/01 06:18 | 4.33       | 78.33      | 0.90           |
| 2017/02/01 06:33 | 4.51       | 64.03      | 0.70           |
| 2017/02/01 06:48 | 4.80       | 88.89      | 0.90           |
| 2017/02/01 07:03 | 5.12       | 107.64     | 1.02           |
| 2017/02/01 07:18 | 5.43       | 165.90     | 1.47           |
| 2017/02/01 07:33 | 5.43       | 173.89     | 1.54           |
| 2017/02/01 07:48 | 5.64       | 193.68     | 1.64           |
| 2017/02/01 08:03 | 5.64       | 202.64     | 1.72           |
| 2017/02/01 08:18 | 5.64       | 202.64     | 1.72           |
| 2017/02/01 08:33 | 5.52       | 191.94     | 1.66           |
| 2017/02/01 08:48 | 5.41       | 193.89     | 1.72           |
| 2017/02/01 09:03 | 5.21       | 179.51     | 1.66           |
| 2017/02/01 09:18 | 5.21       | 179.51     | 1.66           |
| 2017/02/01 09:33 | 5.27       | 176.74     | 1.61           |
| 2017/02/01 09:48 | 5.27       | 176.74     | 1.61           |
| 2017/02/01 10:03 | 5.23       | 175.14     | 1.61           |
| 2017/02/01 10:18 | 5.23       | 157.08     | 1.45           |
| 2017/02/01 10:33 | 5.23       | 149.44     | 1.38           |
| 2017/02/01 10:48 | 5.23       | 149.10     | 1.37           |
| 2017/02/01 11:03 | 5.21       | 148.19     | 1.37           |
| 2017/02/01 11:18 | 5.14       | 130.83     | 1.23           |
| 2017/02/01 11:33 | 4.97       | 99.86      | 0.98           |
| 2017/02/01 11:48 | 4.97       | 98.47      | 0.96           |
| 2017/02/01 12:03 | 4.97       | 98.47      | 0.96           |
| 2017/02/01 12:18 | 4.96       | 92.57      | 0.91           |
| 2017/02/01 12:33 | 4.96       | 83.54      | 0.82           |
| 2017/02/01 12:48 | 4.96       | 98.12      | 0.96           |
| 2017/02/01 13:03 | 4.80       | 105.62     | 1.08           |
| 2017/02/01 13:18 | 4.80       | 105.62     | 1.08           |
| 2017/02/01 13:33 | 4.96       | 129.10     | 1.27           |
| 2017/02/01 13:48 | 5.01       | 130.76     | 1.27           |
| 2017/02/01 14:03 | 5.01       | 112.50     | 1.09           |
| 2017/02/01 14:18 | 5.01       | 130.76     | 1.27           |
| 2017/02/01 14:33 | 4.87       | 109.31     | 1.09           |
| 2017/02/01 14:48 | 4.72       | 104.79     | 1.09           |
| 2017/02/01 15:03 | 4.72       | 105.21     | 1.09           |
| 2017/02/01 15:18 | 4.65       | 104.10     | 1.10           |
| 2017/02/01 15:33 | 4.65       | 103.33     | 1.09           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 15:48 | 4.65       | 94.72      | 1.00           |
| 2017/02/01 16:03 | 4.65       | 102.08     | 1.08           |
| 2017/02/01 16:18 | 4.65       | 102.08     | 1.08           |
| 2017/02/01 16:33 | 4.84       | 99.44      | 1.00           |
| 2017/02/01 16:48 | 4.84       | 100.42     | 1.01           |
| 2017/02/01 17:03 | 4.94       | 109.72     | 1.08           |
| 2017/02/01 17:18 | 4.94       | 111.94     | 1.10           |
| 2017/02/01 17:33 | 5.14       | 132.29     | 1.25           |
| 2017/02/01 17:48 | 5.14       | 132.64     | 1.25           |
| 2017/02/01 18:03 | 5.18       | 133.89     | 1.25           |
| 2017/02/01 18:18 | 5.18       | 133.54     | 1.25           |
| 2017/02/01 18:33 | 5.15       | 120.69     | 1.13           |
| 2017/02/01 18:48 | 5.15       | 106.53     | 1.00           |
| 2017/02/01 19:03 | 5.15       | 106.53     | 1.00           |
| 2017/02/01 19:18 | 5.12       | 92.92      | 0.88           |
| 2017/02/01 19:33 | 5.12       | 92.92      | 0.88           |
| 2017/02/01 19:48 | 5.14       | 103.75     | 0.98           |
| 2017/02/01 20:03 | 5.14       | 109.65     | 1.03           |
| 2017/02/01 20:18 | 5.41       | 129.31     | 1.15           |
| 2017/02/01 20:33 | 5.41       | 132.22     | 1.17           |
| 2017/02/01 20:48 | 5.18       | 158.26     | 1.48           |
| 2017/02/01 21:03 | 5.41       | 166.46     | 1.48           |
| 2017/02/01 21:18 | 5.40       | 128.96     | 1.15           |
| 2017/02/01 21:33 | 5.33       | 163.61     | 1.48           |
| 2017/02/01 21:48 | 5.33       | 126.04     | 1.14           |
| 2017/02/01 22:03 | 5.33       | 126.04     | 1.14           |
| 2017/02/01 22:18 | 5.04       | 118.12     | 1.14           |
| 2017/02/01 22:33 | 4.80       | 103.54     | 1.05           |
| 2017/02/01 22:48 | 4.77       | 102.85     | 1.05           |
| 2017/02/01 23:03 | 4.72       | 101.39     | 1.05           |
| 2017/02/01 23:18 | 4.54       | 96.74      | 1.05           |
| 2017/02/01 23:33 | 4.30       | 95.14      | 1.11           |
| 2017/02/01 23:48 | 4.26       | 93.96      | 1.11           |
| 2017/02/02 00:03 | 4.18       | 83.33      | 1.01           |
| 2017/02/02 00:18 | 4.15       | 90.90      | 1.11           |
| 2017/02/02 00:33 | 4.07       | 80.56      | 1.01           |
| 2017/02/02 00:48 | 4.04       | 75.00      | 0.95           |
| 2017/02/02 01:03 | 4.02       | 79.51      | 1.01           |
| 2017/02/02 01:18 | 3.93       | 102.29     | 1.34           |
| 2017/02/02 01:33 | 3.69       | 81.18      | 1.15           |
| 2017/02/02 01:48 | 3.68       | 80.76      | 1.15           |
| 2017/02/02 02:03 | 3.66       | 80.42      | 1.15           |
| 2017/02/02 02:18 | 3.62       | 79.17      | 1.15           |
| 2017/02/02 02:33 | 3.66       | 80.42      | 1.15           |
| 2017/02/02 02:48 | 3.66       | 72.99      | 1.04           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 03:03 | 3.66       | 90.62      | 1.30           |
| 2017/02/02 03:18 | 3.66       | 90.62      | 1.30           |
| 2017/02/02 03:33 | 3.71       | 78.54      | 1.11           |
| 2017/02/02 03:48 | 3.71       | 77.92      | 1.10           |
| 2017/02/02 04:03 | 3.65       | 77.01      | 1.11           |
| 2017/02/02 04:18 | 3.65       | 76.39      | 1.10           |
| 2017/02/02 04:33 | 3.73       | 75.49      | 1.05           |
| 2017/02/02 04:48 | 3.79       | 76.94      | 1.05           |
| 2017/02/02 05:03 | 3.96       | 77.43      | 1.00           |
| 2017/02/02 05:18 | 3.96       | 77.43      | 1.00           |
| 2017/02/02 05:33 | 4.09       | 80.90      | 1.00           |
| 2017/02/02 05:48 | 4.26       | 88.68      | 1.05           |
| 2017/02/02 06:03 | 4.29       | 72.15      | 0.84           |
| 2017/02/02 06:18 | 4.39       | 78.75      | 0.90           |
| 2017/02/02 06:33 | 4.40       | 79.10      | 0.90           |
| 2017/02/02 06:48 | 4.87       | 104.44     | 1.05           |
| 2017/02/02 07:03 | 5.15       | 122.50     | 1.15           |
| 2017/02/02 07:18 | 5.34       | 127.78     | 1.15           |
| 2017/02/02 07:33 | 5.40       | 137.50     | 1.22           |
| 2017/02/02 07:48 | 5.58       | 142.64     | 1.22           |
| 2017/02/02 08:03 | 5.58       | 219.17     | 1.88           |
| 2017/02/02 08:18 | 5.58       | 219.17     | 1.88           |
| 2017/02/02 08:33 | 5.51       | 216.18     | 1.88           |
| 2017/02/02 08:48 | 5.41       | 190.07     | 1.68           |
| 2017/02/02 09:03 | 5.40       | 175.97     | 1.56           |
| 2017/02/02 09:18 | 5.14       | 150.35     | 1.41           |
| 2017/02/02 09:33 | 5.14       | 149.03     | 1.40           |
| 2017/02/02 09:48 | 5.14       | 129.58     | 1.22           |
| 2017/02/02 10:03 | 5.23       | 132.36     | 1.22           |
| 2017/02/02 10:18 | 5.26       | 120.21     | 1.10           |
| 2017/02/02 10:33 | 5.26       | 133.19     | 1.22           |
| 2017/02/02 10:48 | 5.23       | 119.44     | 1.10           |
| 2017/02/02 11:03 | 4.97       | 130.90     | 1.28           |
| 2017/02/02 11:18 | 4.83       | 108.82     | 1.10           |
| 2017/02/02 11:33 | 4.77       | 101.94     | 1.05           |
| 2017/02/02 11:48 | 4.77       | 93.75      | 0.96           |
| 2017/02/02 12:03 | 4.77       | 93.75      | 0.96           |
| 2017/02/02 12:18 | 4.87       | 96.04      | 0.96           |
| 2017/02/02 12:33 | 4.93       | 97.36      | 0.96           |
| 2017/02/02 12:48 | 4.93       | 97.36      | 0.96           |
| 2017/02/02 13:03 | 5.04       | 99.93      | 0.96           |
| 2017/02/02 13:18 | 4.87       | 91.04      | 0.91           |
| 2017/02/02 13:33 | 4.97       | 93.12      | 0.91           |
| 2017/02/02 13:48 | 4.96       | 92.85      | 0.91           |
| 2017/02/02 14:03 | 4.96       | 72.64      | 0.71           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 14:18 | 4.96       | 72.64      | 0.71           |
| 2017/02/02 14:33 | 4.96       | 67.22      | 0.66           |
| 2017/02/02 14:48 | 4.93       | 66.74      | 0.66           |
| 2017/02/02 15:03 | 4.93       | 95.00      | 0.94           |
| 2017/02/02 15:18 | 4.90       | 94.37      | 0.94           |
| 2017/02/02 15:33 | 4.87       | 77.29      | 0.77           |
| 2017/02/02 15:48 | 4.90       | 94.37      | 0.94           |
| 2017/02/02 16:03 | 4.96       | 102.78     | 1.01           |
| 2017/02/02 16:18 | 4.96       | 104.03     | 1.02           |
| 2017/02/02 16:33 | 4.96       | 104.03     | 1.02           |
| 2017/02/02 16:48 | 4.96       | 104.03     | 1.02           |
| 2017/02/02 17:03 | 4.96       | 99.37      | 0.98           |
| 2017/02/02 17:18 | 4.97       | 99.72      | 0.98           |
| 2017/02/02 17:33 | 4.97       | 99.72      | 0.98           |
| 2017/02/02 17:48 | 4.97       | 102.99     | 1.01           |
| 2017/02/02 18:03 | 5.02       | 111.94     | 1.08           |
| 2017/02/02 18:18 | 5.02       | 113.68     | 1.10           |
| 2017/02/02 18:33 | 5.15       | 116.94     | 1.10           |
| 2017/02/02 18:48 | 5.21       | 150.21     | 1.39           |
| 2017/02/02 19:03 | 5.46       | 158.40     | 1.39           |
| 2017/02/02 19:18 | 5.46       | 158.40     | 1.39           |
| 2017/02/02 19:33 | 5.39       | 150.14     | 1.34           |
| 2017/02/02 19:48 | 5.39       | 144.65     | 1.29           |
| 2017/02/02 20:03 | 5.39       | 144.65     | 1.29           |
| 2017/02/02 20:18 | 5.39       | 144.65     | 1.29           |
| 2017/02/02 20:33 | 5.39       | 144.65     | 1.29           |
| 2017/02/02 20:48 | 5.39       | 144.65     | 1.29           |
| 2017/02/02 21:03 | 5.29       | 124.58     | 1.13           |
| 2017/02/02 21:18 | 5.26       | 92.50      | 0.85           |
| 2017/02/02 21:33 | 5.07       | 88.61      | 0.85           |
| 2017/02/02 21:48 | 5.07       | 88.61      | 0.85           |
| 2017/02/02 22:03 | 5.07       | 88.61      | 0.85           |
| 2017/02/02 22:18 | 5.04       | 109.93     | 1.06           |
| 2017/02/02 22:33 | 4.91       | 106.74     | 1.06           |
| 2017/02/02 22:48 | 5.04       | 109.93     | 1.06           |
| 2017/02/02 23:03 | 4.83       | 104.58     | 1.06           |
| 2017/02/02 23:18 | 4.83       | 104.58     | 1.06           |
| 2017/02/02 23:33 | 4.80       | 95.90      | 0.98           |
| 2017/02/02 23:48 | 4.80       | 95.90      | 0.98           |
| 2017/02/03 00:03 | 4.64       | 91.94      | 0.98           |
| 2017/02/03 00:18 | 4.61       | 91.25      | 0.98           |
| 2017/02/03 00:33 | 4.21       | 84.31      | 1.01           |
| 2017/02/03 00:48 | 4.19       | 159.65     | 1.92           |
| 2017/02/03 01:03 | 3.89       | 150.76     | 2.00           |
| 2017/02/03 01:18 | 3.87       | 144.37     | 1.92           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 01:33 | 3.82       | 141.74     | 1.92           |
| 2017/02/03 01:48 | 3.71       | 127.64     | 1.80           |
| 2017/02/03 02:03 | 3.69       | 119.10     | 1.69           |
| 2017/02/03 02:18 | 3.69       | 98.75      | 1.40           |
| 2017/02/03 02:33 | 3.59       | 115.07     | 1.69           |
| 2017/02/03 02:48 | 3.54       | 102.15     | 1.53           |
| 2017/02/03 03:03 | 3.51       | 101.04     | 1.53           |
| 2017/02/03 03:18 | 3.43       | 97.92      | 1.53           |
| 2017/02/03 03:33 | 3.36       | 95.35      | 1.53           |
| 2017/02/03 03:48 | 3.16       | 82.78      | 1.44           |
| 2017/02/03 04:03 | 3.16       | 80.21      | 1.39           |
| 2017/02/03 04:18 | 3.16       | 74.58      | 1.29           |
| 2017/02/03 04:33 | 3.22       | 82.08      | 1.39           |
| 2017/02/03 04:48 | 3.30       | 69.31      | 1.14           |
| 2017/02/03 05:03 | 3.44       | 60.42      | 0.94           |
| 2017/02/03 05:18 | 3.58       | 63.12      | 0.93           |
| 2017/02/03 05:33 | 3.66       | 65.00      | 0.93           |
| 2017/02/03 05:48 | 3.82       | 57.50      | 0.78           |
| 2017/02/03 06:03 | 3.89       | 58.89      | 0.78           |
| 2017/02/03 06:18 | 4.12       | 63.19      | 0.78           |
| 2017/02/03 06:33 | 4.21       | 64.79      | 0.78           |
| 2017/02/03 06:48 | 4.39       | 119.17     | 1.36           |
| 2017/02/03 07:03 | 4.75       | 131.25     | 1.36           |
| 2017/02/03 07:18 | 4.98       | 139.03     | 1.36           |
| 2017/02/03 07:33 | 5.00       | 159.24     | 1.55           |
| 2017/02/03 07:48 | 5.43       | 175.07     | 1.55           |
| 2017/02/03 08:03 | 5.43       | 165.90     | 1.47           |
| 2017/02/03 08:18 | 5.43       | 208.05     | 1.84           |
| 2017/02/03 08:33 | 5.01       | 171.46     | 1.66           |
| 2017/02/03 08:48 | 5.00       | 160.49     | 1.56           |
| 2017/02/03 09:03 | 4.86       | 165.28     | 1.66           |
| 2017/02/03 09:18 | 4.75       | 160.76     | 1.66           |
| 2017/02/03 09:33 | 4.75       | 151.04     | 1.56           |
| 2017/02/03 09:48 | 4.72       | 127.36     | 1.32           |
| 2017/02/03 10:03 | 4.75       | 127.36     | 1.32           |
| 2017/02/03 10:18 | 4.75       | 125.35     | 1.29           |
| 2017/02/03 10:33 | 4.43       | 115.14     | 1.29           |
| 2017/02/03 10:48 | 4.43       | 117.01     | 1.32           |
| 2017/02/03 11:03 | 4.43       | 130.07     | 1.46           |
| 2017/02/03 11:18 | 4.39       | 128.54     | 1.46           |
| 2017/02/03 11:33 | 4.39       | 160.21     | 1.82           |
| 2017/02/03 11:48 | 4.46       | 163.33     | 1.82           |
| 2017/02/03 12:03 | 4.46       | 117.92     | 1.32           |
| 2017/02/03 12:18 | 4.51       | 119.72     | 1.32           |
| 2017/02/03 12:33 | 4.58       | 142.22     | 1.53           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 12:48 | 4.59       | 137.36     | 1.48           |
| 2017/02/03 13:03 | 4.64       | 138.89     | 1.48           |
| 2017/02/03 13:18 | 4.83       | 151.67     | 1.53           |
| 2017/02/03 13:33 | 4.91       | 152.29     | 1.51           |
| 2017/02/03 13:48 | 4.91       | 152.29     | 1.51           |
| 2017/02/03 14:03 | 5.02       | 169.31     | 1.63           |
| 2017/02/03 14:18 | 5.02       | 169.31     | 1.63           |
| 2017/02/03 14:33 | 4.73       | 145.62     | 1.51           |
| 2017/02/03 14:48 | 4.71       | 142.71     | 1.49           |
| 2017/02/03 15:03 | 4.59       | 122.71     | 1.32           |
| 2017/02/03 15:18 | 4.58       | 115.62     | 1.25           |
| 2017/02/03 15:33 | 4.58       | 99.10      | 1.07           |
| 2017/02/03 15:48 | 4.58       | 99.10      | 1.07           |
| 2017/02/03 16:03 | 4.66       | 101.25     | 1.07           |
| 2017/02/03 16:18 | 4.66       | 102.57     | 1.08           |
| 2017/02/03 16:33 | 4.66       | 136.87     | 1.44           |
| 2017/02/03 16:48 | 4.59       | 134.37     | 1.44           |
| 2017/02/03 17:03 | 4.59       | 114.65     | 1.23           |
| 2017/02/03 17:18 | 4.59       | 114.65     | 1.23           |
| 2017/02/03 17:33 | 4.59       | 114.65     | 1.23           |
| 2017/02/03 17:48 | 4.82       | 121.32     | 1.23           |
| 2017/02/03 18:03 | 5.01       | 127.15     | 1.23           |
| 2017/02/03 18:18 | 5.01       | 92.85      | 0.90           |
| 2017/02/03 18:33 | 5.01       | 92.85      | 0.90           |
| 2017/02/03 18:48 | 5.07       | 94.03      | 0.90           |
| 2017/02/03 19:03 | 5.01       | 92.85      | 0.90           |
| 2017/02/03 19:18 | 5.07       | 111.74     | 1.07           |
| 2017/02/03 19:33 | 5.12       | 118.33     | 1.12           |
| 2017/02/03 19:48 | 5.14       | 113.54     | 1.07           |
| 2017/02/03 20:03 | 5.15       | 132.71     | 1.25           |
| 2017/02/03 20:18 | 5.18       | 133.54     | 1.25           |
| 2017/02/03 20:33 | 5.18       | 114.58     | 1.07           |
| 2017/02/03 20:48 | 5.27       | 97.64      | 0.89           |
| 2017/02/03 21:03 | 5.30       | 117.71     | 1.07           |
| 2017/02/03 21:18 | 5.27       | 117.01     | 1.07           |
| 2017/02/03 21:33 | 5.30       | 130.69     | 1.19           |
| 2017/02/03 21:48 | 5.30       | 130.69     | 1.19           |
| 2017/02/03 22:03 | 5.25       | 129.10     | 1.19           |
| 2017/02/03 22:18 | 5.21       | 112.78     | 1.05           |
| 2017/02/03 22:33 | 5.21       | 110.49     | 1.02           |
| 2017/02/03 22:48 | 5.00       | 105.42     | 1.02           |
| 2017/02/03 23:03 | 4.75       | 101.25     | 1.05           |
| 2017/02/03 23:18 | 4.68       | 96.39      | 1.01           |
| 2017/02/03 23:33 | 4.61       | 97.99      | 1.05           |
| 2017/02/03 23:48 | 4.52       | 97.08      | 1.06           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 00:03 | 4.48       | 95.97      | 1.06           |
| 2017/02/04 00:18 | 4.33       | 90.76      | 1.05           |
| 2017/02/04 00:33 | 4.30       | 90.00      | 1.05           |
| 2017/02/04 00:48 | 4.19       | 89.79      | 1.08           |
| 2017/02/04 01:03 | 3.91       | 87.64      | 1.15           |
| 2017/02/04 01:18 | 3.84       | 85.69      | 1.15           |
| 2017/02/04 01:33 | 3.77       | 83.68      | 1.15           |
| 2017/02/04 01:48 | 3.52       | 76.53      | 1.15           |
| 2017/02/04 02:03 | 3.50       | 52.57      | 0.80           |
| 2017/02/04 02:18 | 3.46       | 51.74      | 0.80           |
| 2017/02/04 02:33 | 3.46       | 47.29      | 0.73           |
| 2017/02/04 02:48 | 3.46       | 40.90      | 0.63           |
| 2017/02/04 03:03 | 3.23       | 43.26      | 0.73           |
| 2017/02/04 03:18 | 3.33       | 49.79      | 0.81           |
| 2017/02/04 03:33 | 3.23       | 64.03      | 1.08           |
| 2017/02/04 03:48 | 3.16       | 62.15      | 1.08           |
| 2017/02/04 04:03 | 3.23       | 64.03      | 1.08           |
| 2017/02/04 04:18 | 3.26       | 64.72      | 1.08           |
| 2017/02/04 04:33 | 3.26       | 59.51      | 0.99           |
| 2017/02/04 04:48 | 3.37       | 59.17      | 0.94           |
| 2017/02/04 05:03 | 3.37       | 59.17      | 0.94           |
| 2017/02/04 05:18 | 3.39       | 70.83      | 1.12           |
| 2017/02/04 05:33 | 3.44       | 60.76      | 0.94           |
| 2017/02/04 05:48 | 3.48       | 61.74      | 0.94           |
| 2017/02/04 06:03 | 3.50       | 45.69      | 0.69           |
| 2017/02/04 06:18 | 3.51       | 45.97      | 0.69           |
| 2017/02/04 06:33 | 3.58       | 47.15      | 0.69           |
| 2017/02/04 06:48 | 3.72       | 49.65      | 0.70           |
| 2017/02/04 07:03 | 3.77       | 55.49      | 0.76           |
| 2017/02/04 07:18 | 4.00       | 70.21      | 0.90           |
| 2017/02/04 07:33 | 4.27       | 97.36      | 1.14           |
| 2017/02/04 07:48 | 4.37       | 100.14     | 1.14           |
| 2017/02/04 08:03 | 4.76       | 107.85     | 1.11           |
| 2017/02/04 08:18 | 4.84       | 110.07     | 1.11           |
| 2017/02/04 08:33 | 4.94       | 116.11     | 1.14           |
| 2017/02/04 08:48 | 4.94       | 124.03     | 1.22           |
| 2017/02/04 09:03 | 5.02       | 130.28     | 1.26           |
| 2017/02/04 09:18 | 4.98       | 129.03     | 1.26           |
| 2017/02/04 09:33 | 4.98       | 129.03     | 1.26           |
| 2017/02/04 09:48 | 5.08       | 155.00     | 1.48           |
| 2017/02/04 10:03 | 5.18       | 168.75     | 1.57           |
| 2017/02/04 10:18 | 5.18       | 168.75     | 1.57           |
| 2017/02/04 10:33 | 5.39       | 179.24     | 1.60           |
| 2017/02/04 10:48 | 5.39       | 179.24     | 1.60           |
| 2017/02/04 11:03 | 5.36       | 178.19     | 1.60           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 11:18 | 5.36       | 193.33     | 1.73           |
| 2017/02/04 11:33 | 5.36       | 193.33     | 1.73           |
| 2017/02/04 11:48 | 5.36       | 167.29     | 1.50           |
| 2017/02/04 12:03 | 5.22       | 150.62     | 1.39           |
| 2017/02/04 12:18 | 5.18       | 158.12     | 1.47           |
| 2017/02/04 12:33 | 5.18       | 158.12     | 1.47           |
| 2017/02/04 12:48 | 5.08       | 153.26     | 1.46           |
| 2017/02/04 13:03 | 5.07       | 154.17     | 1.47           |
| 2017/02/04 13:18 | 5.07       | 161.18     | 1.54           |
| 2017/02/04 13:33 | 5.08       | 176.32     | 1.68           |
| 2017/02/04 13:48 | 5.00       | 158.61     | 1.54           |
| 2017/02/04 14:03 | 5.08       | 161.74     | 1.54           |
| 2017/02/04 14:18 | 5.08       | 130.83     | 1.25           |
| 2017/02/04 14:33 | 5.08       | 130.83     | 1.25           |
| 2017/02/04 14:48 | 4.98       | 127.92     | 1.25           |
| 2017/02/04 15:03 | 4.98       | 92.36      | 0.90           |
| 2017/02/04 15:18 | 4.98       | 66.87      | 0.65           |
| 2017/02/04 15:33 | 4.68       | 124.72     | 1.31           |
| 2017/02/04 15:48 | 4.68       | 62.01      | 0.65           |
| 2017/02/04 16:03 | 4.86       | 64.86      | 0.65           |
| 2017/02/04 16:18 | 4.98       | 116.94     | 1.14           |
| 2017/02/04 16:33 | 4.96       | 133.61     | 1.31           |
| 2017/02/04 16:48 | 4.98       | 116.94     | 1.14           |
| 2017/02/04 17:03 | 5.02       | 140.21     | 1.35           |
| 2017/02/04 17:18 | 5.02       | 118.12     | 1.14           |
| 2017/02/04 17:33 | 4.98       | 127.57     | 1.24           |
| 2017/02/04 17:48 | 5.00       | 127.99     | 1.24           |
| 2017/02/04 18:03 | 4.98       | 138.89     | 1.35           |
| 2017/02/04 18:18 | 4.98       | 168.61     | 1.64           |
| 2017/02/04 18:33 | 4.98       | 168.61     | 1.64           |
| 2017/02/04 18:48 | 5.00       | 173.68     | 1.69           |
| 2017/02/04 19:03 | 5.00       | 169.17     | 1.64           |
| 2017/02/04 19:18 | 5.00       | 136.67     | 1.33           |
| 2017/02/04 19:33 | 5.05       | 128.54     | 1.23           |
| 2017/02/04 19:48 | 5.05       | 128.54     | 1.23           |
| 2017/02/04 20:03 | 4.97       | 116.60     | 1.14           |
| 2017/02/04 20:18 | 4.97       | 116.11     | 1.14           |
| 2017/02/04 20:33 | 4.91       | 107.78     | 1.07           |
| 2017/02/04 20:48 | 4.91       | 114.58     | 1.14           |
| 2017/02/04 21:03 | 4.91       | 114.58     | 1.14           |
| 2017/02/04 21:18 | 5.00       | 129.86     | 1.26           |
| 2017/02/04 21:33 | 4.89       | 139.03     | 1.39           |
| 2017/02/04 21:48 | 4.89       | 139.03     | 1.39           |
| 2017/02/04 22:03 | 4.72       | 121.39     | 1.26           |
| 2017/02/04 22:18 | 4.46       | 109.31     | 1.22           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 22:33 | 4.44       | 107.64     | 1.21           |
| 2017/02/04 22:48 | 4.37       | 85.97      | 0.98           |
| 2017/02/04 23:03 | 4.32       | 84.58      | 0.98           |
| 2017/02/04 23:18 | 4.32       | 84.58      | 0.98           |
| 2017/02/04 23:33 | 4.32       | 84.58      | 0.98           |
| 2017/02/04 23:48 | 4.27       | 93.96      | 1.10           |
| 2017/02/05 00:03 | 4.26       | 93.96      | 1.11           |
| 2017/02/05 00:18 | 4.26       | 97.08      | 1.14           |
| 2017/02/05 00:33 | 4.08       | 91.94      | 1.14           |
| 2017/02/05 00:48 | 4.02       | 92.43      | 1.17           |
| 2017/02/05 01:03 | 4.00       | 92.08      | 1.18           |
| 2017/02/05 01:18 | 3.97       | 88.75      | 1.14           |
| 2017/02/05 01:33 | 3.89       | 83.89      | 1.11           |
| 2017/02/05 01:48 | 3.89       | 86.39      | 1.14           |
| 2017/02/05 02:03 | 3.89       | 86.39      | 1.14           |
| 2017/02/05 02:18 | 3.83       | 84.79      | 1.14           |
| 2017/02/05 02:33 | 3.57       | 113.61     | 1.68           |
| 2017/02/05 02:48 | 3.57       | 114.93     | 1.70           |
| 2017/02/05 03:03 | 3.57       | 114.93     | 1.70           |
| 2017/02/05 03:18 | 3.55       | 114.37     | 1.70           |
| 2017/02/05 03:33 | 3.52       | 91.32      | 1.37           |
| 2017/02/05 03:48 | 3.51       | 90.90      | 1.37           |
| 2017/02/05 04:03 | 3.43       | 88.06      | 1.37           |
| 2017/02/05 04:18 | 3.34       | 107.71     | 1.73           |
| 2017/02/05 04:33 | 3.29       | 105.28     | 1.73           |
| 2017/02/05 04:48 | 3.29       | 105.28     | 1.73           |
| 2017/02/05 05:03 | 3.34       | 100.07     | 1.61           |
| 2017/02/05 05:18 | 3.37       | 77.78      | 1.24           |
| 2017/02/05 05:33 | 3.46       | 70.69      | 1.09           |
| 2017/02/05 05:48 | 3.48       | 71.53      | 1.09           |
| 2017/02/05 06:03 | 3.50       | 71.94      | 1.09           |
| 2017/02/05 06:18 | 3.62       | 75.21      | 1.09           |
| 2017/02/05 06:33 | 3.64       | 75.69      | 1.09           |
| 2017/02/05 06:48 | 3.76       | 80.49      | 1.11           |
| 2017/02/05 07:03 | 3.79       | 81.25      | 1.11           |
| 2017/02/05 07:18 | 3.94       | 68.75      | 0.89           |
| 2017/02/05 07:33 | 4.08       | 88.26      | 1.10           |
| 2017/02/05 07:48 | 4.18       | 90.90      | 1.10           |
| 2017/02/05 08:03 | 4.33       | 95.07      | 1.10           |
| 2017/02/05 08:18 | 4.52       | 100.42     | 1.10           |
| 2017/02/05 08:33 | 4.64       | 110.76     | 1.18           |
| 2017/02/05 08:48 | 4.76       | 116.74     | 1.20           |
| 2017/02/05 09:03 | 4.76       | 118.61     | 1.22           |
| 2017/02/05 09:18 | 4.77       | 141.67     | 1.45           |
| 2017/02/05 09:33 | 4.96       | 164.24     | 1.61           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 09:48 | 4.84       | 159.86     | 1.61           |
| 2017/02/05 10:03 | 4.84       | 159.86     | 1.61           |
| 2017/02/05 10:18 | 4.94       | 147.57     | 1.45           |
| 2017/02/05 10:33 | 5.05       | 114.72     | 1.10           |
| 2017/02/05 10:48 | 5.05       | 114.72     | 1.10           |
| 2017/02/05 11:03 | 5.05       | 174.86     | 1.68           |
| 2017/02/05 11:18 | 5.05       | 148.26     | 1.42           |
| 2017/02/05 11:33 | 5.05       | 157.99     | 1.52           |
| 2017/02/05 11:48 | 5.33       | 167.99     | 1.52           |
| 2017/02/05 12:03 | 5.29       | 166.53     | 1.52           |
| 2017/02/05 12:18 | 5.29       | 166.53     | 1.52           |
| 2017/02/05 12:33 | 5.26       | 165.56     | 1.52           |
| 2017/02/05 12:48 | 5.26       | 178.68     | 1.64           |
| 2017/02/05 13:03 | 5.26       | 178.68     | 1.64           |
| 2017/02/05 13:18 | 5.15       | 176.94     | 1.66           |
| 2017/02/05 13:33 | 5.15       | 176.94     | 1.66           |
| 2017/02/05 13:48 | 5.15       | 176.94     | 1.66           |
| 2017/02/05 14:03 | 5.15       | 170.00     | 1.59           |
| 2017/02/05 14:18 | 5.11       | 168.40     | 1.59           |
| 2017/02/05 14:33 | 5.11       | 168.40     | 1.59           |
| 2017/02/05 14:48 | 5.11       | 149.37     | 1.41           |
| 2017/02/05 15:03 | 5.09       | 148.89     | 1.41           |
| 2017/02/05 15:18 | 4.91       | 142.78     | 1.41           |
| 2017/02/05 15:33 | 4.71       | 113.33     | 1.18           |
| 2017/02/05 15:48 | 4.66       | 90.97      | 0.96           |
| 2017/02/05 16:03 | 4.58       | 82.64      | 0.89           |
| 2017/02/05 16:18 | 4.33       | 83.06      | 0.96           |
| 2017/02/05 16:33 | 4.33       | 83.06      | 0.96           |
| 2017/02/05 16:48 | 4.33       | 96.67      | 1.12           |
| 2017/02/05 17:03 | 4.27       | 99.79      | 1.17           |
| 2017/02/05 17:18 | 4.51       | 118.61     | 1.30           |
| 2017/02/05 17:33 | 4.54       | 120.90     | 1.32           |
| 2017/02/05 17:48 | 4.54       | 119.51     | 1.30           |
| 2017/02/05 18:03 | 4.72       | 125.35     | 1.30           |
| 2017/02/05 18:18 | 4.84       | 130.07     | 1.31           |
| 2017/02/05 18:33 | 4.72       | 126.04     | 1.31           |
| 2017/02/05 18:48 | 4.82       | 129.17     | 1.31           |
| 2017/02/05 19:03 | 4.72       | 136.18     | 1.42           |
| 2017/02/05 19:18 | 4.80       | 139.10     | 1.42           |
| 2017/02/05 19:33 | 4.61       | 113.75     | 1.22           |
| 2017/02/05 19:48 | 4.80       | 139.10     | 1.42           |
| 2017/02/05 20:03 | 4.80       | 139.10     | 1.42           |
| 2017/02/05 20:18 | 5.00       | 150.00     | 1.46           |
| 2017/02/05 20:33 | 5.02       | 158.75     | 1.53           |
| 2017/02/05 20:48 | 5.15       | 189.03     | 1.77           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 21:03 | 5.02       | 183.68     | 1.77           |
| 2017/02/05 21:18 | 5.02       | 158.75     | 1.53           |
| 2017/02/05 21:33 | 4.87       | 153.06     | 1.53           |
| 2017/02/05 21:48 | 4.62       | 128.68     | 1.37           |
| 2017/02/05 22:03 | 4.47       | 118.12     | 1.31           |
| 2017/02/05 22:18 | 4.47       | 118.12     | 1.31           |
| 2017/02/05 22:33 | 4.33       | 92.99      | 1.07           |
| 2017/02/05 22:48 | 4.39       | 94.44      | 1.07           |
| 2017/02/05 23:03 | 4.39       | 87.50      | 0.99           |
| 2017/02/05 23:18 | 4.32       | 96.67      | 1.12           |
| 2017/02/05 23:33 | 4.23       | 82.01      | 0.98           |
| 2017/02/05 23:48 | 4.12       | 79.37      | 0.98           |
| 2017/02/06 00:03 | 4.07       | 77.99      | 0.98           |
| 2017/02/06 00:18 | 4.07       | 92.15      | 1.15           |
| 2017/02/06 00:33 | 4.05       | 91.74      | 1.15           |
| 2017/02/06 00:48 | 3.87       | 86.60      | 1.15           |
| 2017/02/06 01:03 | 3.73       | 82.57      | 1.15           |
| 2017/02/06 01:18 | 3.61       | 72.71      | 1.06           |
| 2017/02/06 01:33 | 3.51       | 70.21      | 1.06           |
| 2017/02/06 01:48 | 3.48       | 66.67      | 1.02           |
| 2017/02/06 02:03 | 3.46       | 68.75      | 1.06           |
| 2017/02/06 02:18 | 3.44       | 65.62      | 1.02           |
| 2017/02/06 02:33 | 3.39       | 70.83      | 1.12           |
| 2017/02/06 02:48 | 3.36       | 58.75      | 0.94           |
| 2017/02/06 03:03 | 3.33       | 69.31      | 1.12           |
| 2017/02/06 03:18 | 3.33       | 87.43      | 1.42           |
| 2017/02/06 03:33 | 3.39       | 89.31      | 1.42           |
| 2017/02/06 03:48 | 3.48       | 76.32      | 1.17           |
| 2017/02/06 04:03 | 3.51       | 77.15      | 1.17           |
| 2017/02/06 04:18 | 3.55       | 53.75      | 0.80           |
| 2017/02/06 04:33 | 3.66       | 55.97      | 0.80           |
| 2017/02/06 04:48 | 3.66       | 75.14      | 1.07           |
| 2017/02/06 05:03 | 3.66       | 55.28      | 0.79           |
| 2017/02/06 05:18 | 3.68       | 54.72      | 0.78           |
| 2017/02/06 05:33 | 3.68       | 75.56      | 1.07           |
| 2017/02/06 05:48 | 4.02       | 84.79      | 1.07           |
| 2017/02/06 06:03 | 4.15       | 94.79      | 1.16           |
| 2017/02/06 06:18 | 4.86       | 127.64     | 1.28           |
| 2017/02/06 06:33 | 5.04       | 133.19     | 1.28           |
| 2017/02/06 06:48 | 5.04       | 120.07     | 1.16           |
| 2017/02/06 07:03 | 5.05       | 124.72     | 1.20           |
| 2017/02/06 07:18 | 5.25       | 130.28     | 1.20           |
| 2017/02/06 07:33 | 5.25       | 130.28     | 1.20           |
| 2017/02/06 07:48 | 5.80       | 227.71     | 1.87           |
| 2017/02/06 08:03 | 5.80       | 232.15     | 1.91           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 08:18 | 5.80       | 232.15     | 1.91           |
| 2017/02/06 08:33 | 5.73       | 229.17     | 1.91           |
| 2017/02/06 08:48 | 5.72       | 228.61     | 1.91           |
| 2017/02/06 09:03 | 5.70       | 226.53     | 1.90           |
| 2017/02/06 09:18 | 5.51       | 217.78     | 1.89           |
| 2017/02/06 09:33 | 5.51       | 218.12     | 1.90           |
| 2017/02/06 09:48 | 5.51       | 217.78     | 1.89           |
| 2017/02/06 10:03 | 5.52       | 218.33     | 1.89           |
| 2017/02/06 10:18 | 5.68       | 177.43     | 1.49           |
| 2017/02/06 10:33 | 5.68       | 177.43     | 1.49           |
| 2017/02/06 10:48 | 5.70       | 178.40     | 1.49           |
| 2017/02/06 11:03 | 5.70       | 181.80     | 1.52           |
| 2017/02/06 11:18 | 5.22       | 164.72     | 1.52           |
| 2017/02/06 11:33 | 4.86       | 151.46     | 1.52           |
| 2017/02/06 11:48 | 4.73       | 146.81     | 1.52           |
| 2017/02/06 12:03 | 4.59       | 133.96     | 1.44           |
| 2017/02/06 12:18 | 4.52       | 127.01     | 1.39           |
| 2017/02/06 12:33 | 4.50       | 126.04     | 1.39           |
| 2017/02/06 12:48 | 4.41       | 127.50     | 1.44           |
| 2017/02/06 13:03 | 4.50       | 134.24     | 1.48           |
| 2017/02/06 13:18 | 4.50       | 134.24     | 1.48           |
| 2017/02/06 13:33 | 4.50       | 134.24     | 1.48           |
| 2017/02/06 13:48 | 4.77       | 132.15     | 1.36           |
| 2017/02/06 14:03 | 4.77       | 116.81     | 1.20           |
| 2017/02/06 14:18 | 4.77       | 113.12     | 1.16           |
| 2017/02/06 14:33 | 4.75       | 112.29     | 1.16           |
| 2017/02/06 14:48 | 4.75       | 106.53     | 1.10           |
| 2017/02/06 15:03 | 4.69       | 101.39     | 1.06           |
| 2017/02/06 15:18 | 4.66       | 91.60      | 0.97           |
| 2017/02/06 15:33 | 4.65       | 90.83      | 0.96           |
| 2017/02/06 15:48 | 4.65       | 93.26      | 0.99           |
| 2017/02/06 16:03 | 4.65       | 90.83      | 0.96           |
| 2017/02/06 16:18 | 4.66       | 91.11      | 0.96           |
| 2017/02/06 16:33 | 4.79       | 96.60      | 0.99           |
| 2017/02/06 16:48 | 4.83       | 103.33     | 1.05           |
| 2017/02/06 17:03 | 4.83       | 105.90     | 1.07           |
| 2017/02/06 17:18 | 4.83       | 105.90     | 1.07           |
| 2017/02/06 17:33 | 5.01       | 110.62     | 1.07           |
| 2017/02/06 17:48 | 5.08       | 112.43     | 1.07           |
| 2017/02/06 18:03 | 5.26       | 140.35     | 1.28           |
| 2017/02/06 18:18 | 5.36       | 143.33     | 1.28           |
| 2017/02/06 18:33 | 5.68       | 152.78     | 1.28           |
| 2017/02/06 18:48 | 5.58       | 149.93     | 1.28           |
| 2017/02/06 19:03 | 5.58       | 133.75     | 1.15           |
| 2017/02/06 19:18 | 5.36       | 127.78     | 1.15           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 19:33 | 5.33       | 127.92     | 1.15           |
| 2017/02/06 19:48 | 5.32       | 153.19     | 1.39           |
| 2017/02/06 20:03 | 5.25       | 150.90     | 1.39           |
| 2017/02/06 20:18 | 5.23       | 150.42     | 1.39           |
| 2017/02/06 20:33 | 5.23       | 157.22     | 1.45           |
| 2017/02/06 20:48 | 5.12       | 153.40     | 1.45           |
| 2017/02/06 21:03 | 5.04       | 140.69     | 1.35           |
| 2017/02/06 21:18 | 4.98       | 138.40     | 1.35           |
| 2017/02/06 21:33 | 4.96       | 137.99     | 1.35           |
| 2017/02/06 21:48 | 4.87       | 134.79     | 1.35           |
| 2017/02/06 22:03 | 4.87       | 94.24      | 0.94           |
| 2017/02/06 22:18 | 4.96       | 96.11      | 0.94           |
| 2017/02/06 22:33 | 4.96       | 96.11      | 0.94           |
| 2017/02/06 22:48 | 4.84       | 93.54      | 0.94           |
| 2017/02/06 23:03 | 4.39       | 92.08      | 1.05           |
| 2017/02/06 23:18 | 4.39       | 103.19     | 1.17           |
| 2017/02/06 23:33 | 4.39       | 103.19     | 1.17           |
| 2017/02/06 23:48 | 4.34       | 102.01     | 1.17           |
| 2017/02/07 00:03 | 3.93       | 88.96      | 1.16           |
| 2017/02/07 00:18 | 3.93       | 74.51      | 0.97           |
| 2017/02/07 00:33 | 3.93       | 74.51      | 0.97           |
| 2017/02/07 00:48 | 3.93       | 67.36      | 0.88           |
| 2017/02/07 01:03 | 3.93       | 67.36      | 0.88           |
| 2017/02/07 01:18 | 3.76       | 65.28      | 0.90           |
| 2017/02/07 01:33 | 3.47       | 62.22      | 0.96           |
| 2017/02/07 01:48 | 3.43       | 61.25      | 0.96           |
| 2017/02/07 02:03 | 3.43       | 64.86      | 1.01           |
| 2017/02/07 02:18 | 3.44       | 61.60      | 0.96           |
| 2017/02/07 02:33 | 3.44       | 61.60      | 0.96           |
| 2017/02/07 02:48 | 3.40       | 58.47      | 0.92           |
| 2017/02/07 03:03 | 3.37       | 57.85      | 0.92           |
| 2017/02/07 03:18 | 3.32       | 56.60      | 0.92           |
| 2017/02/07 03:33 | 3.32       | 63.33      | 1.03           |
| 2017/02/07 03:48 | 3.32       | 63.33      | 1.03           |
| 2017/02/07 04:03 | 3.47       | 67.22      | 1.03           |
| 2017/02/07 04:18 | 3.50       | 54.17      | 0.82           |
| 2017/02/07 04:33 | 3.50       | 54.17      | 0.82           |
| 2017/02/07 04:48 | 3.47       | 43.82      | 0.67           |
| 2017/02/07 05:03 | 3.50       | 47.85      | 0.73           |
| 2017/02/07 05:18 | 3.59       | 49.58      | 0.73           |
| 2017/02/07 05:33 | 3.59       | 49.58      | 0.73           |
| 2017/02/07 05:48 | 3.84       | 50.69      | 0.68           |
| 2017/02/07 06:03 | 3.91       | 55.35      | 0.73           |
| 2017/02/07 06:18 | 4.15       | 77.36      | 0.94           |
| 2017/02/07 06:33 | 4.33       | 91.39      | 1.06           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 06:48 | 4.73       | 115.00     | 1.19           |
| 2017/02/07 07:03 | 5.08       | 155.83     | 1.48           |
| 2017/02/07 07:18 | 5.27       | 172.22     | 1.57           |
| 2017/02/07 07:33 | 5.34       | 174.79     | 1.57           |
| 2017/02/07 07:48 | 5.34       | 174.79     | 1.57           |
| 2017/02/07 08:03 | 5.34       | 174.79     | 1.57           |
| 2017/02/07 08:18 | 5.08       | 157.57     | 1.50           |
| 2017/02/07 08:33 | 5.04       | 156.04     | 1.50           |
| 2017/02/07 08:48 | 4.94       | 152.50     | 1.50           |
| 2017/02/07 09:03 | 4.73       | 144.93     | 1.50           |
| 2017/02/07 09:18 | 4.64       | 128.96     | 1.37           |
| 2017/02/07 09:33 | 4.57       | 100.14     | 1.08           |
| 2017/02/07 09:48 | 4.57       | 100.14     | 1.08           |
| 2017/02/07 10:03 | 4.64       | 101.94     | 1.08           |
| 2017/02/07 10:18 | 4.64       | 101.94     | 1.08           |
| 2017/02/07 10:33 | 4.51       | 127.08     | 1.40           |
| 2017/02/07 10:48 | 4.51       | 127.08     | 1.40           |
| 2017/02/07 11:03 | 4.51       | 125.28     | 1.38           |
| 2017/02/07 11:18 | 4.51       | 125.28     | 1.38           |
| 2017/02/07 11:33 | 4.77       | 136.18     | 1.40           |
| 2017/02/07 11:48 | 4.77       | 134.24     | 1.38           |
| 2017/02/07 12:03 | 4.86       | 164.37     | 1.65           |
| 2017/02/07 12:18 | 4.86       | 164.37     | 1.65           |
| 2017/02/07 12:33 | 4.76       | 142.64     | 1.47           |
| 2017/02/07 12:48 | 4.57       | 111.53     | 1.21           |
| 2017/02/07 13:03 | 4.57       | 135.62     | 1.47           |
| 2017/02/07 13:18 | 4.43       | 118.96     | 1.34           |
| 2017/02/07 13:33 | 4.43       | 118.96     | 1.34           |
| 2017/02/07 13:48 | 4.43       | 118.96     | 1.34           |
| 2017/02/07 14:03 | 4.43       | 118.96     | 1.34           |
| 2017/02/07 14:18 | 4.43       | 118.96     | 1.34           |
| 2017/02/07 14:33 | 4.47       | 110.97     | 1.23           |
| 2017/02/07 14:48 | 4.61       | 113.75     | 1.22           |
| 2017/02/07 15:03 | 4.64       | 116.04     | 1.23           |
| 2017/02/07 15:18 | 4.64       | 116.04     | 1.23           |
| 2017/02/07 15:33 | 4.64       | 100.28     | 1.07           |
| 2017/02/07 15:48 | 4.64       | 100.28     | 1.07           |
| 2017/02/07 16:03 | 4.64       | 112.78     | 1.20           |
| 2017/02/07 16:18 | 4.64       | 112.78     | 1.20           |
| 2017/02/07 16:33 | 4.71       | 120.49     | 1.26           |
| 2017/02/07 16:48 | 4.71       | 125.49     | 1.31           |
| 2017/02/07 17:03 | 4.73       | 128.68     | 1.33           |
| 2017/02/07 17:18 | 4.73       | 150.97     | 1.56           |
| 2017/02/07 17:33 | 4.87       | 156.25     | 1.56           |
| 2017/02/07 17:48 | 5.00       | 160.97     | 1.56           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 18:03 | 5.00       | 159.72     | 1.55           |
| 2017/02/07 18:18 | 5.00       | 156.74     | 1.52           |
| 2017/02/07 18:33 | 4.97       | 155.69     | 1.52           |
| 2017/02/07 18:48 | 4.97       | 157.92     | 1.54           |
| 2017/02/07 19:03 | 4.97       | 155.69     | 1.52           |
| 2017/02/07 19:18 | 5.21       | 164.37     | 1.52           |
| 2017/02/07 19:33 | 5.37       | 167.99     | 1.50           |
| 2017/02/07 19:48 | 5.37       | 149.72     | 1.34           |
| 2017/02/07 20:03 | 5.48       | 153.12     | 1.34           |
| 2017/02/07 20:18 | 5.54       | 154.86     | 1.34           |
| 2017/02/07 20:33 | 5.48       | 156.46     | 1.37           |
| 2017/02/07 20:48 | 5.41       | 154.24     | 1.37           |
| 2017/02/07 21:03 | 5.41       | 158.89     | 1.41           |
| 2017/02/07 21:18 | 5.40       | 158.47     | 1.41           |
| 2017/02/07 21:33 | 5.37       | 152.92     | 1.37           |
| 2017/02/07 21:48 | 5.15       | 150.14     | 1.41           |
| 2017/02/07 22:03 | 5.08       | 167.01     | 1.59           |
| 2017/02/07 22:18 | 4.94       | 161.67     | 1.59           |
| 2017/02/07 22:33 | 4.77       | 141.39     | 1.45           |
| 2017/02/07 22:48 | 4.72       | 139.37     | 1.45           |
| 2017/02/07 23:03 | 4.68       | 137.64     | 1.45           |
| 2017/02/07 23:18 | 4.59       | 98.33      | 1.06           |
| 2017/02/07 23:33 | 4.37       | 73.68      | 0.84           |
| 2017/02/07 23:48 | 4.25       | 71.04      | 0.84           |
| 2017/02/08 00:03 | 4.21       | 79.72      | 0.96           |
| 2017/02/08 00:18 | 4.12       | 77.71      | 0.96           |
| 2017/02/08 00:33 | 4.12       | 69.51      | 0.85           |
| 2017/02/08 00:48 | 4.02       | 75.42      | 0.96           |
| 2017/02/08 01:03 | 3.80       | 76.53      | 1.04           |
| 2017/02/08 01:18 | 3.72       | 67.50      | 0.95           |
| 2017/02/08 01:33 | 3.72       | 69.37      | 0.97           |
| 2017/02/08 01:48 | 3.69       | 68.68      | 0.97           |
| 2017/02/08 02:03 | 3.69       | 68.68      | 0.97           |
| 2017/02/08 02:18 | 3.66       | 67.99      | 0.97           |
| 2017/02/08 02:33 | 3.80       | 71.39      | 0.97           |
| 2017/02/08 02:48 | 3.66       | 72.92      | 1.04           |
| 2017/02/08 03:03 | 3.64       | 72.22      | 1.04           |
| 2017/02/08 03:18 | 3.64       | 63.75      | 0.92           |
| 2017/02/08 03:33 | 3.64       | 63.75      | 0.92           |
| 2017/02/08 03:48 | 3.64       | 107.15     | 1.55           |
| 2017/02/08 04:03 | 3.64       | 104.72     | 1.51           |
| 2017/02/08 04:18 | 3.71       | 109.86     | 1.55           |
| 2017/02/08 04:33 | 3.64       | 109.79     | 1.59           |
| 2017/02/08 04:48 | 3.71       | 116.46     | 1.64           |
| 2017/02/08 05:03 | 3.71       | 112.57     | 1.59           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 05:18 | 3.71       | 112.57     | 1.59           |
| 2017/02/08 05:33 | 3.71       | 75.69      | 1.07           |
| 2017/02/08 05:48 | 3.98       | 77.29      | 0.99           |
| 2017/02/08 06:03 | 3.98       | 60.42      | 0.78           |
| 2017/02/08 06:18 | 3.98       | 60.42      | 0.78           |
| 2017/02/08 06:33 | 4.22       | 64.93      | 0.78           |
| 2017/02/08 06:48 | 4.65       | 122.50     | 1.30           |
| 2017/02/08 07:03 | 4.87       | 129.58     | 1.30           |
| 2017/02/08 07:18 | 4.97       | 135.14     | 1.32           |
| 2017/02/08 07:33 | 4.87       | 132.01     | 1.32           |
| 2017/02/08 07:48 | 5.12       | 140.35     | 1.32           |
| 2017/02/08 08:03 | 5.12       | 137.57     | 1.30           |
| 2017/02/08 08:18 | 5.34       | 144.37     | 1.30           |
| 2017/02/08 08:33 | 5.32       | 143.54     | 1.30           |
| 2017/02/08 08:48 | 5.32       | 143.54     | 1.30           |
| 2017/02/08 09:03 | 5.32       | 134.31     | 1.21           |
| 2017/02/08 09:18 | 5.18       | 130.28     | 1.21           |
| 2017/02/08 09:33 | 5.18       | 198.40     | 1.85           |
| 2017/02/08 09:48 | 5.18       | 139.58     | 1.30           |
| 2017/02/08 10:03 | 5.18       | 198.40     | 1.85           |
| 2017/02/08 10:18 | 5.18       | 198.40     | 1.85           |
| 2017/02/08 10:33 | 5.19       | 149.24     | 1.39           |
| 2017/02/08 10:48 | 5.19       | 149.24     | 1.39           |
| 2017/02/08 11:03 | 5.19       | 150.07     | 1.39           |
| 2017/02/08 11:18 | 5.19       | 149.24     | 1.39           |
| 2017/02/08 11:33 | 5.19       | 150.07     | 1.39           |
| 2017/02/08 11:48 | 5.01       | 163.12     | 1.58           |
| 2017/02/08 12:03 | 4.79       | 154.58     | 1.58           |
| 2017/02/08 12:18 | 4.79       | 154.58     | 1.58           |
| 2017/02/08 12:33 | 5.00       | 162.57     | 1.58           |
| 2017/02/08 12:48 | 4.76       | 162.85     | 1.68           |
| 2017/02/08 13:03 | 4.82       | 143.47     | 1.46           |
| 2017/02/08 13:18 | 4.82       | 143.47     | 1.46           |
| 2017/02/08 13:33 | 4.82       | 113.96     | 1.16           |
| 2017/02/08 13:48 | 4.82       | 113.96     | 1.16           |
| 2017/02/08 14:03 | 4.82       | 113.96     | 1.16           |
| 2017/02/08 14:18 | 4.93       | 117.08     | 1.16           |
| 2017/02/08 14:33 | 4.93       | 146.46     | 1.45           |
| 2017/02/08 14:48 | 4.93       | 146.46     | 1.45           |
| 2017/02/08 15:03 | 4.93       | 146.46     | 1.45           |
| 2017/02/08 15:18 | 4.91       | 145.97     | 1.45           |
| 2017/02/08 15:33 | 4.87       | 144.51     | 1.45           |
| 2017/02/08 15:48 | 4.86       | 144.17     | 1.45           |
| 2017/02/08 16:03 | 4.69       | 138.26     | 1.45           |
| 2017/02/08 16:18 | 4.69       | 132.15     | 1.38           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 16:33 | 4.69       | 128.82     | 1.35           |
| 2017/02/08 16:48 | 4.86       | 125.62     | 1.26           |
| 2017/02/08 17:03 | 4.90       | 126.94     | 1.26           |
| 2017/02/08 17:18 | 4.90       | 133.33     | 1.33           |
| 2017/02/08 17:33 | 4.96       | 135.14     | 1.33           |
| 2017/02/08 17:48 | 4.96       | 156.46     | 1.54           |
| 2017/02/08 18:03 | 4.86       | 152.85     | 1.54           |
| 2017/02/08 18:18 | 4.86       | 152.85     | 1.54           |
| 2017/02/08 18:33 | 4.86       | 152.85     | 1.54           |
| 2017/02/08 18:48 | 4.86       | 169.58     | 1.70           |
| 2017/02/08 19:03 | 5.22       | 197.71     | 1.83           |
| 2017/02/08 19:18 | 5.22       | 197.71     | 1.83           |
| 2017/02/08 19:33 | 5.22       | 197.71     | 1.83           |
| 2017/02/08 19:48 | 5.26       | 193.33     | 1.77           |
| 2017/02/08 20:03 | 5.05       | 150.97     | 1.45           |
| 2017/02/08 20:18 | 5.05       | 150.97     | 1.45           |
| 2017/02/08 20:33 | 5.39       | 161.25     | 1.44           |
| 2017/02/08 20:48 | 5.39       | 161.25     | 1.44           |
| 2017/02/08 21:03 | 5.19       | 152.71     | 1.42           |
| 2017/02/08 21:18 | 5.39       | 159.17     | 1.42           |
| 2017/02/08 21:33 | 5.19       | 152.71     | 1.42           |
| 2017/02/08 21:48 | 5.16       | 173.75     | 1.63           |
| 2017/02/08 22:03 | 5.16       | 185.00     | 1.73           |
| 2017/02/08 22:18 | 5.16       | 185.00     | 1.73           |
| 2017/02/08 22:33 | 5.14       | 172.71     | 1.63           |
| 2017/02/08 22:48 | 5.04       | 164.65     | 1.58           |
| 2017/02/08 23:03 | 4.87       | 131.39     | 1.32           |
| 2017/02/08 23:18 | 4.52       | 96.81      | 1.06           |
| 2017/02/08 23:33 | 4.51       | 96.39      | 1.06           |
| 2017/02/08 23:48 | 4.37       | 78.19      | 0.89           |
| 2017/02/09 00:03 | 4.18       | 66.04      | 0.80           |
| 2017/02/09 00:18 | 4.18       | 66.04      | 0.80           |
| 2017/02/09 00:33 | 4.16       | 65.76      | 0.80           |
| 2017/02/09 00:48 | 4.14       | 65.21      | 0.80           |
| 2017/02/09 01:03 | 3.90       | 60.56      | 0.80           |
| 2017/02/09 01:18 | 3.79       | 63.12      | 0.86           |
| 2017/02/09 01:33 | 3.79       | 63.33      | 0.87           |
| 2017/02/09 01:48 | 3.75       | 65.42      | 0.91           |
| 2017/02/09 02:03 | 3.72       | 70.00      | 0.98           |
| 2017/02/09 02:18 | 3.57       | 66.25      | 0.98           |
| 2017/02/09 02:33 | 3.46       | 63.61      | 0.98           |
| 2017/02/09 02:48 | 3.46       | 63.26      | 0.98           |
| 2017/02/09 03:03 | 3.46       | 63.26      | 0.98           |
| 2017/02/09 03:18 | 3.47       | 52.71      | 0.81           |
| 2017/02/09 03:33 | 3.48       | 52.99      | 0.81           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 03:48 | 3.48       | 52.99      | 0.81           |
| 2017/02/09 04:03 | 3.48       | 52.99      | 0.81           |
| 2017/02/09 04:18 | 3.54       | 54.10      | 0.81           |
| 2017/02/09 04:33 | 3.44       | 48.40      | 0.75           |
| 2017/02/09 04:48 | 3.44       | 53.47      | 0.83           |
| 2017/02/09 05:03 | 3.55       | 55.28      | 0.82           |
| 2017/02/09 05:18 | 3.69       | 58.12      | 0.82           |
| 2017/02/09 05:33 | 3.69       | 58.68      | 0.83           |
| 2017/02/09 05:48 | 3.76       | 60.07      | 0.83           |
| 2017/02/09 06:03 | 4.07       | 68.96      | 0.86           |
| 2017/02/09 06:18 | 4.16       | 87.01      | 1.06           |
| 2017/02/09 06:33 | 4.23       | 96.04      | 1.14           |
| 2017/02/09 06:48 | 4.91       | 126.74     | 1.26           |
| 2017/02/09 07:03 | 4.91       | 126.74     | 1.26           |
| 2017/02/09 07:18 | 4.91       | 153.06     | 1.52           |
| 2017/02/09 07:33 | 4.91       | 165.69     | 1.64           |
| 2017/02/09 07:48 | 5.00       | 176.87     | 1.72           |
| 2017/02/09 08:03 | 5.14       | 161.18     | 1.52           |
| 2017/02/09 08:18 | 5.52       | 187.92     | 1.63           |
| 2017/02/09 08:33 | 5.52       | 191.25     | 1.66           |
| 2017/02/09 08:48 | 5.54       | 188.40     | 1.63           |
| 2017/02/09 09:03 | 5.59       | 174.93     | 1.50           |
| 2017/02/09 09:18 | 5.59       | 174.93     | 1.50           |
| 2017/02/09 09:33 | 5.59       | 145.35     | 1.24           |
| 2017/02/09 09:48 | 6.22       | 162.29     | 1.24           |
| 2017/02/09 10:03 | 6.22       | 141.81     | 1.08           |
| 2017/02/09 10:18 | 6.22       | 141.81     | 1.08           |
| 2017/02/09 10:33 | 5.11       | 120.35     | 1.14           |
| 2017/02/09 10:48 | 4.97       | 116.60     | 1.14           |
| 2017/02/09 11:03 | 4.91       | 115.00     | 1.14           |
| 2017/02/09 11:18 | 4.82       | 115.49     | 1.17           |
| 2017/02/09 11:33 | 4.82       | 155.62     | 1.58           |
| 2017/02/09 11:48 | 4.82       | 155.62     | 1.58           |
| 2017/02/09 12:03 | 4.82       | 178.19     | 1.81           |
| 2017/02/09 12:18 | 4.82       | 155.62     | 1.58           |
| 2017/02/09 12:33 | 4.94       | 160.00     | 1.57           |
| 2017/02/09 12:48 | 4.94       | 140.14     | 1.38           |
| 2017/02/09 13:03 | 4.94       | 160.00     | 1.57           |
| 2017/02/09 13:18 | 4.86       | 133.06     | 1.34           |
| 2017/02/09 13:33 | 4.86       | 133.06     | 1.34           |
| 2017/02/09 13:48 | 4.86       | 133.06     | 1.34           |
| 2017/02/09 14:03 | 4.86       | 140.56     | 1.41           |
| 2017/02/09 14:18 | 4.86       | 133.06     | 1.34           |
| 2017/02/09 14:33 | 4.90       | 141.94     | 1.41           |
| 2017/02/09 14:48 | 4.90       | 146.60     | 1.46           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 15:03 | 4.84       | 150.83     | 1.52           |
| 2017/02/09 15:18 | 5.08       | 159.51     | 1.52           |
| 2017/02/09 15:33 | 5.08       | 159.51     | 1.52           |
| 2017/02/09 15:48 | 5.08       | 153.06     | 1.46           |
| 2017/02/09 16:03 | 5.08       | 153.06     | 1.46           |
| 2017/02/09 16:18 | 5.08       | 152.43     | 1.45           |
| 2017/02/09 16:33 | 5.08       | 153.06     | 1.46           |
| 2017/02/09 16:48 | 5.08       | 170.69     | 1.63           |
| 2017/02/09 17:03 | 5.00       | 184.86     | 1.80           |
| 2017/02/09 17:18 | 5.00       | 167.43     | 1.63           |
| 2017/02/09 17:33 | 5.00       | 167.43     | 1.63           |
| 2017/02/09 17:48 | 5.00       | 160.49     | 1.56           |
| 2017/02/09 18:03 | 5.00       | 103.33     | 1.00           |
| 2017/02/09 18:18 | 5.29       | 110.35     | 1.00           |
| 2017/02/09 18:33 | 5.29       | 154.93     | 1.41           |
| 2017/02/09 18:48 | 5.29       | 171.39     | 1.56           |
| 2017/02/09 19:03 | 5.36       | 179.72     | 1.61           |
| 2017/02/09 19:18 | 5.47       | 207.43     | 1.82           |
| 2017/02/09 19:33 | 5.47       | 207.43     | 1.82           |
| 2017/02/09 19:48 | 5.47       | 207.43     | 1.82           |
| 2017/02/09 20:03 | 5.41       | 197.99     | 1.75           |
| 2017/02/09 20:18 | 5.41       | 197.99     | 1.75           |
| 2017/02/09 20:33 | 5.41       | 197.99     | 1.75           |
| 2017/02/09 20:48 | 5.29       | 192.85     | 1.75           |
| 2017/02/09 21:03 | 5.29       | 192.85     | 1.75           |
| 2017/02/09 21:18 | 5.18       | 223.05     | 2.08           |
| 2017/02/09 21:33 | 5.18       | 170.07     | 1.59           |
| 2017/02/09 21:48 | 5.18       | 117.85     | 1.10           |
| 2017/02/09 22:03 | 5.18       | 170.07     | 1.59           |
| 2017/02/09 22:18 | 5.18       | 146.81     | 1.37           |
| 2017/02/09 22:33 | 5.16       | 140.14     | 1.31           |
| 2017/02/09 22:48 | 5.05       | 142.71     | 1.37           |
| 2017/02/09 23:03 | 4.86       | 136.25     | 1.37           |
| 2017/02/09 23:18 | 4.64       | 126.53     | 1.34           |
| 2017/02/09 23:33 | 4.58       | 121.60     | 1.31           |
| 2017/02/09 23:48 | 4.58       | 100.35     | 1.08           |
| 2017/02/10 00:03 | 4.36       | 91.18      | 1.05           |
| 2017/02/10 00:18 | 4.46       | 79.51      | 0.89           |
| 2017/02/10 00:33 | 4.30       | 76.11      | 0.89           |
| 2017/02/10 00:48 | 4.26       | 70.14      | 0.83           |
| 2017/02/10 01:03 | 3.97       | 58.33      | 0.75           |
| 2017/02/10 01:18 | 3.91       | 45.14      | 0.59           |
| 2017/02/10 01:33 | 3.86       | 44.31      | 0.59           |
| 2017/02/10 01:48 | 3.64       | 41.04      | 0.59           |
| 2017/02/10 02:03 | 3.61       | 41.94      | 0.61           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 02:18 | 3.61       | 43.12      | 0.63           |
| 2017/02/10 02:33 | 3.61       | 49.79      | 0.73           |
| 2017/02/10 02:48 | 3.64       | 52.50      | 0.76           |
| 2017/02/10 03:03 | 3.68       | 52.22      | 0.74           |
| 2017/02/10 03:18 | 3.71       | 53.82      | 0.76           |
| 2017/02/10 03:33 | 3.68       | 53.33      | 0.76           |
| 2017/02/10 03:48 | 3.68       | 56.67      | 0.81           |
| 2017/02/10 04:03 | 3.68       | 53.33      | 0.76           |
| 2017/02/10 04:18 | 3.62       | 52.29      | 0.76           |
| 2017/02/10 04:33 | 3.52       | 57.36      | 0.86           |
| 2017/02/10 04:48 | 3.52       | 51.04      | 0.77           |
| 2017/02/10 05:03 | 3.62       | 49.31      | 0.72           |
| 2017/02/10 05:18 | 3.62       | 49.31      | 0.72           |
| 2017/02/10 05:33 | 3.91       | 58.47      | 0.77           |
| 2017/02/10 05:48 | 4.01       | 60.35      | 0.77           |
| 2017/02/10 06:03 | 4.26       | 103.82     | 1.22           |
| 2017/02/10 06:18 | 4.30       | 105.07     | 1.22           |
| 2017/02/10 06:33 | 4.44       | 109.31     | 1.22           |
| 2017/02/10 06:48 | 4.62       | 121.46     | 1.30           |
| 2017/02/10 07:03 | 4.97       | 132.50     | 1.30           |
| 2017/02/10 07:18 | 5.36       | 144.51     | 1.30           |
| 2017/02/10 07:33 | 5.55       | 155.97     | 1.34           |
| 2017/02/10 07:48 | 5.97       | 168.54     | 1.34           |
| 2017/02/10 08:03 | 5.97       | 168.54     | 1.34           |
| 2017/02/10 08:18 | 5.97       | 192.85     | 1.54           |
| 2017/02/10 08:33 | 5.93       | 166.53     | 1.34           |
| 2017/02/10 08:48 | 5.93       | 166.53     | 1.34           |
| 2017/02/10 09:03 | 5.86       | 163.61     | 1.33           |
| 2017/02/10 09:18 | 5.65       | 172.50     | 1.46           |
| 2017/02/10 09:33 | 5.61       | 156.11     | 1.33           |
| 2017/02/10 09:48 | 5.48       | 152.29     | 1.33           |
| 2017/02/10 10:03 | 5.48       | 152.29     | 1.33           |
| 2017/02/10 10:18 | 5.48       | 146.18     | 1.28           |
| 2017/02/10 10:33 | 5.48       | 118.75     | 1.04           |
| 2017/02/10 10:48 | 5.48       | 146.18     | 1.28           |
| 2017/02/10 11:03 | 5.51       | 162.64     | 1.41           |
| 2017/02/10 11:18 | 5.51       | 162.64     | 1.41           |
| 2017/02/10 11:33 | 5.46       | 160.83     | 1.41           |
| 2017/02/10 11:48 | 5.46       | 160.83     | 1.41           |
| 2017/02/10 12:03 | 5.40       | 179.03     | 1.59           |
| 2017/02/10 12:18 | 5.40       | 162.08     | 1.44           |
| 2017/02/10 12:33 | 5.37       | 147.29     | 1.32           |
| 2017/02/10 12:48 | 5.36       | 146.87     | 1.32           |
| 2017/02/10 13:03 | 5.40       | 162.08     | 1.44           |
| 2017/02/10 13:18 | 5.36       | 132.78     | 1.19           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 13:33 | 5.36       | 132.78     | 1.19           |
| 2017/02/10 13:48 | 5.36       | 150.97     | 1.35           |
| 2017/02/10 14:03 | 5.36       | 150.97     | 1.35           |
| 2017/02/10 14:18 | 5.21       | 112.78     | 1.05           |
| 2017/02/10 14:33 | 5.12       | 128.68     | 1.21           |
| 2017/02/10 14:48 | 4.98       | 124.58     | 1.21           |
| 2017/02/10 15:03 | 4.98       | 118.96     | 1.16           |
| 2017/02/10 15:18 | 4.98       | 118.96     | 1.16           |
| 2017/02/10 15:33 | 4.73       | 117.22     | 1.21           |
| 2017/02/10 15:48 | 4.73       | 111.94     | 1.16           |
| 2017/02/10 16:03 | 4.98       | 118.96     | 1.16           |
| 2017/02/10 16:18 | 4.98       | 102.22     | 1.00           |
| 2017/02/10 16:33 | 5.26       | 145.69     | 1.33           |
| 2017/02/10 16:48 | 5.26       | 152.22     | 1.39           |
| 2017/02/10 17:03 | 5.41       | 157.22     | 1.39           |
| 2017/02/10 17:18 | 5.32       | 134.31     | 1.21           |
| 2017/02/10 17:33 | 5.32       | 154.03     | 1.39           |
| 2017/02/10 17:48 | 5.32       | 155.21     | 1.40           |
| 2017/02/10 18:03 | 5.40       | 136.67     | 1.21           |
| 2017/02/10 18:18 | 5.40       | 134.93     | 1.20           |
| 2017/02/10 18:33 | 5.50       | 146.25     | 1.27           |
| 2017/02/10 18:48 | 5.51       | 146.67     | 1.27           |
| 2017/02/10 19:03 | 5.54       | 147.43     | 1.27           |
| 2017/02/10 19:18 | 5.54       | 177.64     | 1.54           |
| 2017/02/10 19:33 | 5.68       | 183.82     | 1.55           |
| 2017/02/10 19:48 | 5.68       | 183.82     | 1.55           |
| 2017/02/10 20:03 | 5.48       | 175.69     | 1.54           |
| 2017/02/10 20:18 | 5.36       | 172.43     | 1.55           |
| 2017/02/10 20:33 | 5.36       | 173.26     | 1.55           |
| 2017/02/10 20:48 | 5.30       | 168.54     | 1.53           |
| 2017/02/10 21:03 | 5.32       | 169.03     | 1.53           |
| 2017/02/10 21:18 | 5.32       | 162.78     | 1.47           |
| 2017/02/10 21:33 | 5.34       | 163.75     | 1.47           |
| 2017/02/10 21:48 | 5.32       | 160.28     | 1.45           |
| 2017/02/10 22:03 | 5.32       | 160.28     | 1.45           |
| 2017/02/10 22:18 | 5.23       | 152.08     | 1.40           |
| 2017/02/10 22:33 | 5.16       | 143.26     | 1.34           |
| 2017/02/10 22:48 | 5.15       | 131.74     | 1.24           |
| 2017/02/10 23:03 | 5.04       | 128.47     | 1.24           |
| 2017/02/10 23:18 | 4.83       | 122.22     | 1.24           |
| 2017/02/10 23:33 | 4.75       | 119.72     | 1.24           |
| 2017/02/10 23:48 | 4.75       | 119.72     | 1.24           |
| 2017/02/11 00:03 | 4.68       | 111.39     | 1.17           |
| 2017/02/11 00:18 | 4.62       | 93.75      | 1.00           |
| 2017/02/11 00:33 | 4.51       | 88.75      | 0.98           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 00:48 | 4.43       | 71.39      | 0.80           |
| 2017/02/11 01:03 | 4.29       | 65.76      | 0.77           |
| 2017/02/11 01:18 | 4.25       | 65.00      | 0.77           |
| 2017/02/11 01:33 | 4.25       | 65.00      | 0.77           |
| 2017/02/11 01:48 | 4.15       | 63.12      | 0.77           |
| 2017/02/11 02:03 | 4.15       | 63.12      | 0.77           |
| 2017/02/11 02:18 | 4.14       | 71.32      | 0.87           |
| 2017/02/11 02:33 | 4.14       | 72.92      | 0.89           |
| 2017/02/11 02:48 | 3.97       | 69.24      | 0.89           |
| 2017/02/11 03:03 | 3.94       | 144.03     | 1.87           |
| 2017/02/11 03:18 | 3.93       | 143.40     | 1.87           |
| 2017/02/11 03:33 | 3.91       | 59.37      | 0.78           |
| 2017/02/11 03:48 | 3.89       | 48.61      | 0.64           |
| 2017/02/11 04:03 | 3.77       | 56.74      | 0.78           |
| 2017/02/11 04:18 | 3.75       | 56.18      | 0.78           |
| 2017/02/11 04:33 | 3.71       | 64.37      | 0.91           |
| 2017/02/11 04:48 | 3.65       | 63.12      | 0.91           |
| 2017/02/11 05:03 | 3.65       | 64.58      | 0.93           |
| 2017/02/11 05:18 | 3.69       | 64.03      | 0.91           |
| 2017/02/11 05:33 | 3.69       | 64.03      | 0.91           |
| 2017/02/11 05:48 | 3.69       | 65.56      | 0.93           |
| 2017/02/11 06:03 | 3.79       | 67.78      | 0.93           |
| 2017/02/11 06:18 | 3.96       | 69.37      | 0.90           |
| 2017/02/11 06:33 | 4.00       | 102.08     | 1.30           |
| 2017/02/11 06:48 | 4.04       | 71.25      | 0.90           |
| 2017/02/11 07:03 | 4.05       | 71.60      | 0.90           |
| 2017/02/11 07:18 | 4.30       | 80.35      | 0.94           |
| 2017/02/11 07:33 | 4.65       | 105.62     | 1.12           |
| 2017/02/11 07:48 | 4.75       | 108.33     | 1.12           |
| 2017/02/11 08:03 | 5.14       | 122.43     | 1.15           |
| 2017/02/11 08:18 | 5.44       | 138.19     | 1.22           |
| 2017/02/11 08:33 | 5.52       | 143.54     | 1.24           |
| 2017/02/11 08:48 | 5.54       | 164.58     | 1.42           |
| 2017/02/11 09:03 | 5.54       | 191.60     | 1.66           |
| 2017/02/11 09:18 | 5.62       | 165.14     | 1.40           |
| 2017/02/11 09:33 | 5.75       | 199.44     | 1.66           |
| 2017/02/11 09:48 | 5.80       | 210.76     | 1.73           |
| 2017/02/11 10:03 | 5.83       | 216.74     | 1.77           |
| 2017/02/11 10:18 | 5.84       | 230.69     | 1.88           |
| 2017/02/11 10:33 | 5.84       | 260.62     | 2.13           |
| 2017/02/11 10:48 | 5.95       | 265.83     | 2.13           |
| 2017/02/11 11:03 | 5.84       | 261.60     | 2.13           |
| 2017/02/11 11:18 | 5.84       | 260.62     | 2.13           |
| 2017/02/11 11:33 | 5.84       | 241.04     | 1.97           |
| 2017/02/11 11:48 | 5.84       | 241.04     | 1.97           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 12:03 | 5.76       | 187.43     | 1.55           |
| 2017/02/11 12:18 | 5.69       | 154.65     | 1.30           |
| 2017/02/11 12:33 | 5.69       | 185.00     | 1.55           |
| 2017/02/11 12:48 | 5.64       | 159.44     | 1.35           |
| 2017/02/11 13:03 | 5.57       | 157.29     | 1.35           |
| 2017/02/11 13:18 | 5.57       | 159.79     | 1.37           |
| 2017/02/11 13:33 | 5.54       | 158.96     | 1.37           |
| 2017/02/11 13:48 | 5.47       | 156.74     | 1.37           |
| 2017/02/11 14:03 | 5.47       | 160.90     | 1.41           |
| 2017/02/11 14:18 | 5.43       | 176.81     | 1.56           |
| 2017/02/11 14:33 | 5.43       | 176.81     | 1.56           |
| 2017/02/11 14:48 | 5.43       | 176.81     | 1.56           |
| 2017/02/11 15:03 | 5.39       | 169.44     | 1.51           |
| 2017/02/11 15:18 | 5.39       | 141.04     | 1.26           |
| 2017/02/11 15:33 | 5.40       | 141.46     | 1.26           |
| 2017/02/11 15:48 | 5.40       | 105.07     | 0.93           |
| 2017/02/11 16:03 | 5.54       | 91.11      | 0.79           |
| 2017/02/11 16:18 | 5.54       | 91.11      | 0.79           |
| 2017/02/11 16:33 | 5.54       | 124.51     | 1.08           |
| 2017/02/11 16:48 | 5.54       | 124.51     | 1.08           |
| 2017/02/11 17:03 | 5.50       | 163.40     | 1.42           |
| 2017/02/11 17:18 | 5.48       | 168.89     | 1.48           |
| 2017/02/11 17:33 | 5.47       | 168.40     | 1.48           |
| 2017/02/11 17:48 | 5.47       | 168.40     | 1.48           |
| 2017/02/11 18:03 | 5.48       | 173.26     | 1.51           |
| 2017/02/11 18:18 | 5.54       | 159.79     | 1.38           |
| 2017/02/11 18:33 | 5.64       | 162.92     | 1.38           |
| 2017/02/11 18:48 | 5.64       | 165.76     | 1.41           |
| 2017/02/11 19:03 | 5.54       | 162.64     | 1.41           |
| 2017/02/11 19:18 | 5.52       | 162.22     | 1.41           |
| 2017/02/11 19:33 | 5.43       | 159.03     | 1.41           |
| 2017/02/11 19:48 | 5.40       | 158.12     | 1.41           |
| 2017/02/11 20:03 | 5.40       | 126.87     | 1.13           |
| 2017/02/11 20:18 | 5.43       | 181.80     | 1.61           |
| 2017/02/11 20:33 | 5.40       | 178.06     | 1.58           |
| 2017/02/11 20:48 | 5.37       | 178.06     | 1.59           |
| 2017/02/11 21:03 | 5.37       | 177.01     | 1.58           |
| 2017/02/11 21:18 | 5.33       | 175.49     | 1.58           |
| 2017/02/11 21:33 | 5.33       | 147.85     | 1.33           |
| 2017/02/11 21:48 | 5.19       | 143.47     | 1.33           |
| 2017/02/11 22:03 | 5.19       | 143.47     | 1.33           |
| 2017/02/11 22:18 | 5.19       | 149.37     | 1.39           |
| 2017/02/11 22:33 | 5.19       | 149.37     | 1.39           |
| 2017/02/11 22:48 | 4.94       | 141.04     | 1.39           |
| 2017/02/11 23:03 | 4.90       | 115.14     | 1.14           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 23:18 | 4.90       | 97.78      | 0.97           |
| 2017/02/11 23:33 | 4.90       | 97.78      | 0.97           |
| 2017/02/11 23:48 | 4.89       | 105.21     | 1.05           |
| 2017/02/12 00:03 | 4.72       | 108.61     | 1.13           |
| 2017/02/12 00:18 | 4.72       | 100.97     | 1.05           |
| 2017/02/12 00:33 | 4.68       | 99.86      | 1.05           |
| 2017/02/12 00:48 | 4.55       | 92.85      | 1.01           |
| 2017/02/12 01:03 | 4.54       | 86.81      | 0.95           |
| 2017/02/12 01:18 | 4.40       | 82.01      | 0.93           |
| 2017/02/12 01:33 | 4.33       | 79.10      | 0.91           |
| 2017/02/12 01:48 | 4.19       | 75.97      | 0.91           |
| 2017/02/12 02:03 | 4.21       | 75.76      | 0.91           |
| 2017/02/12 02:18 | 4.19       | 75.97      | 0.91           |
| 2017/02/12 02:33 | 4.19       | 75.49      | 0.91           |
| 2017/02/12 02:48 | 4.19       | 75.49      | 0.91           |
| 2017/02/12 03:03 | 4.15       | 153.40     | 1.87           |
| 2017/02/12 03:18 | 4.15       | 156.94     | 1.91           |
| 2017/02/12 03:33 | 4.16       | 154.03     | 1.87           |
| 2017/02/12 03:48 | 4.15       | 156.94     | 1.91           |
| 2017/02/12 04:03 | 4.14       | 152.78     | 1.87           |
| 2017/02/12 04:18 | 4.16       | 139.10     | 1.69           |
| 2017/02/12 04:33 | 4.12       | 93.75      | 1.15           |
| 2017/02/12 04:48 | 4.12       | 137.36     | 1.69           |
| 2017/02/12 05:03 | 4.07       | 110.21     | 1.38           |
| 2017/02/12 05:18 | 4.07       | 77.50      | 0.97           |
| 2017/02/12 05:33 | 4.07       | 82.64      | 1.03           |
| 2017/02/12 05:48 | 4.27       | 96.32      | 1.13           |
| 2017/02/12 06:03 | 4.27       | 93.68      | 1.10           |
| 2017/02/12 06:18 | 4.27       | 87.99      | 1.03           |
| 2017/02/12 06:33 | 4.29       | 88.33      | 1.03           |
| 2017/02/12 06:48 | 4.34       | 76.81      | 0.88           |
| 2017/02/12 07:03 | 4.47       | 79.51      | 0.88           |
| 2017/02/12 07:18 | 4.54       | 80.62      | 0.88           |
| 2017/02/12 07:33 | 4.80       | 86.32      | 0.88           |
| 2017/02/12 07:48 | 4.86       | 88.26      | 0.89           |
| 2017/02/12 08:03 | 5.08       | 114.79     | 1.09           |
| 2017/02/12 08:18 | 5.47       | 124.86     | 1.09           |
| 2017/02/12 08:33 | 5.57       | 166.74     | 1.43           |
| 2017/02/12 08:48 | 5.70       | 214.10     | 1.79           |
| 2017/02/12 09:03 | 5.73       | 215.21     | 1.79           |
| 2017/02/12 09:18 | 5.75       | 172.57     | 1.43           |
| 2017/02/12 09:33 | 5.77       | 173.47     | 1.43           |
| 2017/02/12 09:48 | 5.82       | 218.54     | 1.79           |
| 2017/02/12 10:03 | 5.82       | 224.37     | 1.84           |
| 2017/02/12 10:18 | 5.90       | 232.08     | 1.87           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 10:33 | 5.90       | 232.08     | 1.87           |
| 2017/02/12 10:48 | 5.90       | 227.71     | 1.84           |
| 2017/02/12 11:03 | 5.90       | 217.36     | 1.75           |
| 2017/02/12 11:18 | 5.90       | 217.36     | 1.75           |
| 2017/02/12 11:33 | 5.94       | 218.96     | 1.75           |
| 2017/02/12 11:48 | 5.94       | 218.96     | 1.75           |
| 2017/02/12 12:03 | 5.94       | 218.96     | 1.75           |
| 2017/02/12 12:18 | 5.75       | 159.58     | 1.32           |
| 2017/02/12 12:33 | 5.75       | 159.58     | 1.32           |
| 2017/02/12 12:48 | 5.66       | 157.08     | 1.32           |
| 2017/02/12 13:03 | 5.66       | 157.08     | 1.32           |
| 2017/02/12 13:18 | 5.66       | 157.08     | 1.32           |
| 2017/02/12 13:33 | 5.75       | 190.42     | 1.58           |
| 2017/02/12 13:48 | 5.66       | 170.62     | 1.44           |
| 2017/02/12 14:03 | 5.64       | 169.72     | 1.44           |
| 2017/02/12 14:18 | 5.59       | 168.33     | 1.44           |
| 2017/02/12 14:33 | 5.59       | 168.33     | 1.44           |
| 2017/02/12 14:48 | 5.46       | 153.33     | 1.35           |
| 2017/02/12 15:03 | 5.46       | 153.33     | 1.35           |
| 2017/02/12 15:18 | 5.46       | 153.33     | 1.35           |
| 2017/02/12 15:33 | 5.46       | 130.56     | 1.15           |
| 2017/02/12 15:48 | 5.46       | 143.96     | 1.26           |
| 2017/02/12 16:03 | 5.39       | 150.83     | 1.34           |
| 2017/02/12 16:18 | 5.39       | 150.83     | 1.34           |
| 2017/02/12 16:33 | 5.39       | 150.83     | 1.34           |
| 2017/02/12 16:48 | 5.39       | 180.42     | 1.61           |
| 2017/02/12 17:03 | 5.46       | 183.05     | 1.61           |
| 2017/02/12 17:18 | 5.46       | 183.05     | 1.61           |
| 2017/02/12 17:33 | 5.41       | 150.62     | 1.34           |
| 2017/02/12 17:48 | 5.41       | 150.62     | 1.34           |
| 2017/02/12 18:03 | 5.46       | 151.94     | 1.34           |
| 2017/02/12 18:18 | 5.51       | 171.60     | 1.49           |
| 2017/02/12 18:33 | 5.55       | 173.33     | 1.49           |
| 2017/02/12 18:48 | 5.57       | 173.82     | 1.49           |
| 2017/02/12 19:03 | 5.57       | 173.47     | 1.49           |
| 2017/02/12 19:18 | 5.57       | 171.18     | 1.47           |
| 2017/02/12 19:33 | 5.57       | 171.18     | 1.47           |
| 2017/02/12 19:48 | 5.57       | 171.18     | 1.47           |
| 2017/02/12 20:03 | 5.66       | 174.44     | 1.47           |
| 2017/02/12 20:18 | 5.77       | 170.56     | 1.41           |
| 2017/02/12 20:33 | 5.66       | 189.79     | 1.60           |
| 2017/02/12 20:48 | 5.66       | 167.01     | 1.41           |
| 2017/02/12 21:03 | 5.54       | 149.58     | 1.29           |
| 2017/02/12 21:18 | 5.47       | 147.50     | 1.29           |
| 2017/02/12 21:33 | 5.47       | 147.50     | 1.29           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 21:48 | 5.47       | 147.50     | 1.29           |
| 2017/02/12 22:03 | 5.47       | 147.50     | 1.29           |
| 2017/02/12 22:18 | 5.47       | 178.82     | 1.57           |
| 2017/02/12 22:33 | 5.47       | 178.82     | 1.57           |
| 2017/02/12 22:48 | 5.37       | 127.15     | 1.14           |
| 2017/02/12 23:03 | 4.91       | 97.01      | 0.96           |
| 2017/02/12 23:18 | 4.68       | 106.11     | 1.12           |
| 2017/02/12 23:33 | 4.68       | 91.46      | 0.96           |
| 2017/02/12 23:48 | 4.68       | 91.46      | 0.96           |
| 2017/02/13 00:03 | 4.68       | 102.92     | 1.08           |
| 2017/02/13 00:18 | 4.59       | 100.69     | 1.08           |
| 2017/02/13 00:33 | 4.59       | 92.92      | 1.00           |
| 2017/02/13 00:48 | 4.59       | 92.92      | 1.00           |
| 2017/02/13 01:03 | 4.33       | 86.39      | 1.00           |
| 2017/02/13 01:18 | 4.05       | 79.51      | 1.00           |
| 2017/02/13 01:33 | 4.05       | 74.37      | 0.93           |
| 2017/02/13 01:48 | 4.00       | 73.06      | 0.93           |
| 2017/02/13 02:03 | 3.93       | 123.68     | 1.62           |
| 2017/02/13 02:18 | 3.93       | 71.46      | 0.93           |
| 2017/02/13 02:33 | 3.94       | 68.26      | 0.89           |
| 2017/02/13 02:48 | 3.89       | 67.01      | 0.89           |
| 2017/02/13 03:03 | 3.94       | 73.19      | 0.95           |
| 2017/02/13 03:18 | 3.94       | 69.10      | 0.90           |
| 2017/02/13 03:33 | 3.94       | 71.81      | 0.93           |
| 2017/02/13 03:48 | 3.94       | 73.19      | 0.95           |
| 2017/02/13 04:03 | 3.97       | 72.43      | 0.93           |
| 2017/02/13 04:18 | 4.08       | 75.00      | 0.93           |
| 2017/02/13 04:33 | 4.11       | 81.46      | 1.01           |
| 2017/02/13 04:48 | 4.08       | 82.99      | 1.03           |
| 2017/02/13 05:03 | 4.08       | 80.76      | 1.01           |
| 2017/02/13 05:18 | 4.12       | 81.81      | 1.01           |
| 2017/02/13 05:33 | 4.12       | 79.86      | 0.98           |
| 2017/02/13 05:48 | 4.32       | 77.78      | 0.90           |
| 2017/02/13 06:03 | 4.52       | 59.10      | 0.65           |
| 2017/02/13 06:18 | 4.68       | 61.53      | 0.65           |
| 2017/02/13 06:33 | 4.76       | 62.85      | 0.65           |
| 2017/02/13 06:48 | 5.33       | 112.50     | 1.01           |
| 2017/02/13 07:03 | 5.46       | 142.71     | 1.25           |
| 2017/02/13 07:18 | 5.59       | 153.75     | 1.31           |
| 2017/02/13 07:33 | 5.76       | 185.76     | 1.54           |
| 2017/02/13 07:48 | 5.76       | 185.76     | 1.54           |
| 2017/02/13 08:03 | 5.72       | 186.53     | 1.56           |
| 2017/02/13 08:18 | 5.75       | 203.47     | 1.69           |
| 2017/02/13 08:33 | 5.72       | 186.53     | 1.56           |
| 2017/02/13 08:48 | 5.68       | 185.07     | 1.56           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 09:03 | 5.72       | 186.53     | 1.56           |
| 2017/02/13 09:18 | 5.54       | 177.85     | 1.54           |
| 2017/02/13 09:33 | 5.54       | 165.14     | 1.43           |
| 2017/02/13 09:48 | 5.54       | 165.14     | 1.43           |
| 2017/02/13 10:03 | 5.54       | 165.14     | 1.43           |
| 2017/02/13 10:18 | 5.54       | 165.62     | 1.43           |
| 2017/02/13 10:33 | 5.59       | 155.00     | 1.32           |
| 2017/02/13 10:48 | 5.51       | 164.72     | 1.43           |
| 2017/02/13 11:03 | 5.51       | 164.72     | 1.43           |
| 2017/02/13 11:18 | 5.58       | 159.17     | 1.36           |
| 2017/02/13 11:33 | 5.58       | 159.17     | 1.36           |
| 2017/02/13 11:48 | 5.58       | 189.24     | 1.62           |
| 2017/02/13 12:03 | 5.65       | 191.80     | 1.62           |
| 2017/02/13 12:18 | 5.65       | 191.80     | 1.62           |
| 2017/02/13 12:33 | 5.65       | 191.80     | 1.62           |
| 2017/02/13 12:48 | 5.57       | 152.01     | 1.31           |
| 2017/02/13 13:03 | 5.27       | 143.12     | 1.31           |
| 2017/02/13 13:18 | 5.23       | 98.06      | 0.90           |
| 2017/02/13 13:33 | 5.23       | 118.12     | 1.09           |
| 2017/02/13 13:48 | 5.23       | 118.12     | 1.09           |
| 2017/02/13 14:03 | 5.22       | 145.35     | 1.34           |
| 2017/02/13 14:18 | 5.22       | 118.47     | 1.09           |
| 2017/02/13 14:33 | 5.15       | 143.12     | 1.34           |
| 2017/02/13 14:48 | 5.15       | 143.12     | 1.34           |
| 2017/02/13 15:03 | 5.04       | 125.42     | 1.21           |
| 2017/02/13 15:18 | 5.04       | 125.42     | 1.21           |
| 2017/02/13 15:33 | 5.09       | 127.08     | 1.21           |
| 2017/02/13 15:48 | 5.09       | 127.08     | 1.21           |
| 2017/02/13 16:03 | 5.12       | 130.00     | 1.23           |
| 2017/02/13 16:18 | 5.26       | 134.03     | 1.23           |
| 2017/02/13 16:33 | 5.26       | 134.03     | 1.23           |
| 2017/02/13 16:48 | 5.26       | 149.86     | 1.37           |
| 2017/02/13 17:03 | 5.29       | 150.76     | 1.37           |
| 2017/02/13 17:18 | 5.29       | 131.81     | 1.20           |
| 2017/02/13 17:33 | 5.22       | 129.86     | 1.20           |
| 2017/02/13 17:48 | 5.22       | 122.71     | 1.13           |
| 2017/02/13 18:03 | 5.29       | 124.58     | 1.13           |
| 2017/02/13 18:18 | 5.29       | 124.58     | 1.13           |
| 2017/02/13 18:33 | 5.37       | 140.49     | 1.26           |
| 2017/02/13 18:48 | 5.48       | 143.75     | 1.26           |
| 2017/02/13 19:03 | 5.54       | 154.86     | 1.34           |
| 2017/02/13 19:18 | 5.54       | 154.86     | 1.34           |
| 2017/02/13 19:33 | 5.48       | 128.54     | 1.12           |
| 2017/02/13 19:48 | 5.43       | 126.39     | 1.12           |
| 2017/02/13 20:03 | 5.43       | 127.08     | 1.12           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 20:18 | 5.34       | 124.86     | 1.12           |
| 2017/02/13 20:33 | 5.34       | 135.56     | 1.22           |
| 2017/02/13 20:48 | 5.43       | 167.29     | 1.48           |
| 2017/02/13 21:03 | 5.47       | 168.75     | 1.48           |
| 2017/02/13 21:18 | 5.47       | 139.17     | 1.22           |
| 2017/02/13 21:33 | 5.47       | 139.17     | 1.22           |
| 2017/02/13 21:48 | 5.47       | 148.06     | 1.30           |
| 2017/02/13 22:03 | 5.47       | 148.06     | 1.30           |
| 2017/02/13 22:18 | 5.29       | 146.04     | 1.33           |
| 2017/02/13 22:33 | 5.29       | 148.26     | 1.35           |
| 2017/02/13 22:48 | 5.21       | 143.47     | 1.33           |
| 2017/02/13 23:03 | 5.01       | 137.22     | 1.33           |
| 2017/02/13 23:18 | 5.00       | 133.68     | 1.30           |
| 2017/02/13 23:33 | 4.71       | 107.01     | 1.12           |
| 2017/02/13 23:48 | 4.66       | 105.90     | 1.12           |
| 2017/02/14 00:03 | 4.47       | 80.76      | 0.90           |
| 2017/02/14 00:18 | 4.43       | 77.36      | 0.87           |
| 2017/02/14 00:33 | 4.33       | 75.56      | 0.87           |
| 2017/02/14 00:48 | 4.22       | 75.21      | 0.90           |
| 2017/02/14 01:03 | 4.15       | 71.67      | 0.87           |
| 2017/02/14 01:18 | 4.07       | 69.79      | 0.87           |
| 2017/02/14 01:33 | 4.07       | 73.96      | 0.92           |
| 2017/02/14 01:48 | 4.07       | 73.96      | 0.92           |
| 2017/02/14 02:03 | 4.05       | 71.11      | 0.89           |
| 2017/02/14 02:18 | 3.90       | 74.65      | 0.98           |
| 2017/02/14 02:33 | 3.86       | 66.81      | 0.89           |
| 2017/02/14 02:48 | 3.82       | 63.96      | 0.87           |
| 2017/02/14 03:03 | 3.80       | 58.68      | 0.80           |
| 2017/02/14 03:18 | 3.72       | 61.81      | 0.87           |
| 2017/02/14 03:33 | 3.55       | 58.26      | 0.87           |
| 2017/02/14 03:48 | 3.27       | 53.54      | 0.89           |
| 2017/02/14 04:03 | 3.23       | 64.03      | 1.08           |
| 2017/02/14 04:18 | 3.23       | 64.03      | 1.08           |
| 2017/02/14 04:33 | 3.09       | 54.24      | 0.97           |
| 2017/02/14 04:48 | 3.27       | 58.47      | 0.97           |
| 2017/02/14 05:03 | 3.29       | 50.21      | 0.83           |
| 2017/02/14 05:18 | 3.29       | 50.21      | 0.83           |
| 2017/02/14 05:33 | 3.29       | 50.21      | 0.83           |
| 2017/02/14 05:48 | 3.62       | 57.01      | 0.83           |
| 2017/02/14 06:03 | 3.80       | 63.96      | 0.87           |
| 2017/02/14 06:18 | 3.96       | 67.29      | 0.87           |
| 2017/02/14 06:33 | 4.07       | 47.01      | 0.59           |
| 2017/02/14 06:48 | 4.23       | 73.33      | 0.87           |
| 2017/02/14 07:03 | 4.34       | 71.32      | 0.82           |
| 2017/02/14 07:18 | 4.57       | 75.83      | 0.82           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 07:33 | 4.71       | 140.83     | 1.47           |
| 2017/02/14 07:48 | 4.87       | 146.81     | 1.47           |
| 2017/02/14 08:03 | 4.87       | 116.04     | 1.16           |
| 2017/02/14 08:18 | 4.89       | 116.39     | 1.16           |
| 2017/02/14 08:33 | 4.89       | 116.39     | 1.16           |
| 2017/02/14 08:48 | 4.89       | 116.39     | 1.16           |
| 2017/02/14 09:03 | 4.86       | 117.92     | 1.18           |
| 2017/02/14 09:18 | 4.77       | 115.49     | 1.18           |
| 2017/02/14 09:33 | 4.77       | 120.42     | 1.23           |
| 2017/02/14 09:48 | 4.69       | 117.85     | 1.23           |
| 2017/02/14 10:03 | 4.69       | 142.50     | 1.49           |
| 2017/02/14 10:18 | 4.69       | 109.86     | 1.15           |
| 2017/02/14 10:33 | 4.90       | 150.07     | 1.49           |
| 2017/02/14 10:48 | 4.69       | 109.86     | 1.15           |
| 2017/02/14 11:03 | 4.84       | 114.17     | 1.15           |
| 2017/02/14 11:18 | 4.84       | 64.37      | 0.65           |
| 2017/02/14 11:33 | 4.84       | 64.37      | 0.65           |
| 2017/02/14 11:48 | 4.62       | 60.83      | 0.65           |
| 2017/02/14 12:03 | 4.66       | 88.68      | 0.94           |
| 2017/02/14 12:18 | 4.65       | 110.56     | 1.17           |
| 2017/02/14 12:33 | 4.66       | 121.53     | 1.28           |
| 2017/02/14 12:48 | 4.66       | 124.10     | 1.31           |
| 2017/02/14 13:03 | 4.94       | 140.42     | 1.38           |
| 2017/02/14 13:18 | 4.94       | 140.42     | 1.38           |
| 2017/02/14 13:33 | 4.94       | 140.42     | 1.38           |
| 2017/02/14 13:48 | 4.66       | 128.06     | 1.35           |
| 2017/02/14 14:03 | 4.50       | 117.36     | 1.29           |
| 2017/02/14 14:18 | 4.44       | 115.56     | 1.29           |
| 2017/02/14 14:33 | 4.44       | 120.62     | 1.35           |
| 2017/02/14 14:48 | 4.50       | 120.42     | 1.33           |
| 2017/02/14 15:03 | 4.50       | 120.42     | 1.33           |
| 2017/02/14 15:18 | 4.40       | 117.22     | 1.33           |
| 2017/02/14 15:33 | 4.48       | 104.37     | 1.16           |
| 2017/02/14 15:48 | 4.48       | 104.37     | 1.16           |
| 2017/02/14 16:03 | 4.48       | 104.37     | 1.16           |
| 2017/02/14 16:18 | 4.72       | 126.04     | 1.31           |
| 2017/02/14 16:33 | 4.72       | 126.04     | 1.31           |
| 2017/02/14 16:48 | 4.72       | 126.04     | 1.31           |
| 2017/02/14 17:03 | 4.72       | 126.04     | 1.31           |
| 2017/02/14 17:18 | 4.72       | 121.04     | 1.26           |
| 2017/02/14 17:33 | 5.02       | 111.74     | 1.08           |
| 2017/02/14 17:48 | 5.02       | 123.12     | 1.19           |
| 2017/02/14 18:03 | 5.02       | 130.42     | 1.26           |
| 2017/02/14 18:18 | 4.98       | 121.94     | 1.19           |
| 2017/02/14 18:33 | 4.98       | 80.97      | 0.79           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 18:48 | 4.96       | 121.18     | 1.19           |
| 2017/02/14 19:03 | 4.98       | 122.29     | 1.19           |
| 2017/02/14 19:18 | 5.01       | 123.06     | 1.19           |
| 2017/02/14 19:33 | 5.09       | 148.89     | 1.41           |
| 2017/02/14 19:48 | 5.18       | 151.74     | 1.41           |
| 2017/02/14 20:03 | 5.18       | 165.49     | 1.54           |
| 2017/02/14 20:18 | 5.18       | 165.49     | 1.54           |
| 2017/02/14 20:33 | 5.14       | 139.93     | 1.32           |
| 2017/02/14 20:48 | 5.14       | 117.71     | 1.11           |
| 2017/02/14 21:03 | 5.14       | 117.71     | 1.11           |
| 2017/02/14 21:18 | 5.14       | 117.71     | 1.11           |
| 2017/02/14 21:33 | 5.12       | 117.36     | 1.11           |
| 2017/02/14 21:48 | 5.05       | 122.50     | 1.17           |
| 2017/02/14 22:03 | 5.05       | 130.28     | 1.25           |
| 2017/02/14 22:18 | 5.00       | 128.61     | 1.25           |
| 2017/02/14 22:33 | 4.86       | 124.44     | 1.25           |
| 2017/02/14 22:48 | 4.77       | 121.87     | 1.25           |
| 2017/02/14 23:03 | 4.55       | 109.44     | 1.19           |
| 2017/02/14 23:18 | 4.52       | 108.61     | 1.19           |
| 2017/02/14 23:33 | 4.47       | 97.22      | 1.08           |
| 2017/02/14 23:48 | 4.37       | 97.15      | 1.11           |
| 2017/02/15 00:03 | 4.37       | 97.15      | 1.11           |
| 2017/02/15 00:18 | 4.26       | 89.44      | 1.05           |
| 2017/02/15 00:33 | 4.21       | 63.54      | 0.76           |
| 2017/02/15 00:48 | 3.84       | 54.79      | 0.74           |
| 2017/02/15 01:03 | 3.66       | 51.46      | 0.74           |
| 2017/02/15 01:18 | 3.64       | 52.78      | 0.76           |
| 2017/02/15 01:33 | 3.64       | 63.75      | 0.92           |
| 2017/02/15 01:48 | 3.66       | 65.21      | 0.93           |
| 2017/02/15 02:03 | 3.55       | 62.64      | 0.93           |
| 2017/02/15 02:18 | 3.72       | 66.53      | 0.93           |
| 2017/02/15 02:33 | 3.72       | 66.53      | 0.93           |
| 2017/02/15 02:48 | 3.71       | 67.15      | 0.95           |
| 2017/02/15 03:03 | 3.58       | 64.24      | 0.95           |
| 2017/02/15 03:18 | 3.58       | 64.24      | 0.95           |
| 2017/02/15 03:33 | 3.58       | 49.93      | 0.74           |
| 2017/02/15 03:48 | 3.58       | 49.31      | 0.73           |
| 2017/02/15 04:03 | 3.58       | 49.31      | 0.73           |
| 2017/02/15 04:18 | 3.62       | 50.69      | 0.74           |
| 2017/02/15 04:33 | 3.64       | 51.87      | 0.75           |
| 2017/02/15 04:48 | 3.64       | 53.26      | 0.77           |
| 2017/02/15 05:03 | 3.65       | 58.12      | 0.83           |
| 2017/02/15 05:18 | 3.73       | 110.07     | 1.54           |
| 2017/02/15 05:33 | 3.73       | 110.07     | 1.54           |
| 2017/02/15 05:48 | 3.94       | 117.99     | 1.54           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 06:03 | 4.14       | 77.57      | 0.95           |
| 2017/02/15 06:18 | 4.30       | 81.53      | 0.95           |
| 2017/02/15 06:33 | 4.34       | 82.50      | 0.95           |
| 2017/02/15 06:48 | 4.84       | 129.58     | 1.31           |
| 2017/02/15 07:03 | 4.91       | 131.81     | 1.31           |
| 2017/02/15 07:18 | 5.05       | 147.15     | 1.41           |
| 2017/02/15 07:33 | 5.61       | 190.83     | 1.63           |
| 2017/02/15 07:48 | 5.61       | 190.83     | 1.63           |
| 2017/02/15 08:03 | 5.48       | 186.18     | 1.63           |
| 2017/02/15 08:18 | 5.48       | 186.18     | 1.63           |
| 2017/02/15 08:33 | 5.44       | 174.72     | 1.54           |
| 2017/02/15 08:48 | 5.25       | 156.25     | 1.43           |
| 2017/02/15 09:03 | 5.11       | 162.57     | 1.54           |
| 2017/02/15 09:18 | 5.11       | 156.60     | 1.48           |
| 2017/02/15 09:33 | 5.11       | 162.57     | 1.54           |
| 2017/02/15 09:48 | 5.11       | 175.14     | 1.66           |
| 2017/02/15 10:03 | 5.11       | 175.14     | 1.66           |
| 2017/02/15 10:18 | 4.90       | 171.46     | 1.70           |
| 2017/02/15 10:33 | 4.90       | 188.33     | 1.87           |
| 2017/02/15 10:48 | 5.15       | 199.58     | 1.87           |
| 2017/02/15 11:03 | 5.15       | 199.58     | 1.87           |
| 2017/02/15 11:18 | 5.15       | 199.58     | 1.87           |
| 2017/02/15 11:33 | 5.15       | 187.71     | 1.76           |
| 2017/02/15 11:48 | 5.14       | 186.32     | 1.75           |
| 2017/02/15 12:03 | 5.00       | 160.83     | 1.56           |
| 2017/02/15 12:18 | 4.82       | 143.12     | 1.45           |
| 2017/02/15 12:33 | 4.82       | 145.14     | 1.47           |
| 2017/02/15 12:48 | 4.82       | 145.14     | 1.47           |
| 2017/02/15 13:03 | 4.91       | 146.60     | 1.45           |
| 2017/02/15 13:18 | 4.91       | 148.61     | 1.47           |
| 2017/02/15 13:33 | 4.91       | 150.90     | 1.50           |
| 2017/02/15 13:48 | 4.65       | 141.25     | 1.50           |
| 2017/02/15 14:03 | 4.65       | 141.25     | 1.50           |
| 2017/02/15 14:18 | 4.65       | 142.71     | 1.51           |
| 2017/02/15 14:33 | 4.76       | 145.35     | 1.50           |
| 2017/02/15 14:48 | 4.76       | 142.22     | 1.46           |
| 2017/02/15 15:03 | 4.76       | 146.81     | 1.51           |
| 2017/02/15 15:18 | 4.62       | 137.22     | 1.46           |
| 2017/02/15 15:33 | 4.57       | 126.60     | 1.37           |
| 2017/02/15 15:48 | 4.57       | 124.24     | 1.34           |
| 2017/02/15 16:03 | 4.62       | 126.04     | 1.34           |
| 2017/02/15 16:18 | 4.71       | 128.82     | 1.34           |
| 2017/02/15 16:33 | 4.83       | 123.75     | 1.25           |
| 2017/02/15 16:48 | 4.83       | 123.75     | 1.25           |
| 2017/02/15 17:03 | 4.83       | 125.97     | 1.27           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 17:18 | 4.89       | 127.71     | 1.27           |
| 2017/02/15 17:33 | 4.91       | 128.61     | 1.27           |
| 2017/02/15 17:48 | 4.97       | 133.54     | 1.31           |
| 2017/02/15 18:03 | 5.04       | 144.03     | 1.39           |
| 2017/02/15 18:18 | 5.04       | 144.93     | 1.39           |
| 2017/02/15 18:33 | 5.04       | 161.74     | 1.56           |
| 2017/02/15 18:48 | 5.32       | 172.08     | 1.56           |
| 2017/02/15 19:03 | 5.33       | 182.08     | 1.64           |
| 2017/02/15 19:18 | 5.32       | 161.25     | 1.46           |
| 2017/02/15 19:33 | 5.32       | 181.53     | 1.64           |
| 2017/02/15 19:48 | 5.22       | 157.92     | 1.46           |
| 2017/02/15 20:03 | 5.22       | 157.92     | 1.46           |
| 2017/02/15 20:18 | 5.22       | 139.44     | 1.29           |
| 2017/02/15 20:33 | 5.29       | 141.53     | 1.29           |
| 2017/02/15 20:48 | 5.34       | 143.19     | 1.29           |
| 2017/02/15 21:03 | 5.34       | 171.39     | 1.54           |
| 2017/02/15 21:18 | 5.57       | 179.30     | 1.54           |
| 2017/02/15 21:33 | 5.57       | 179.30     | 1.54           |
| 2017/02/15 21:48 | 5.39       | 166.74     | 1.49           |
| 2017/02/15 22:03 | 5.30       | 163.82     | 1.49           |
| 2017/02/15 22:18 | 5.12       | 147.08     | 1.39           |
| 2017/02/15 22:33 | 5.12       | 147.08     | 1.39           |
| 2017/02/15 22:48 | 5.12       | 147.08     | 1.39           |
| 2017/02/15 23:03 | 5.04       | 144.31     | 1.39           |
| 2017/02/15 23:18 | 5.04       | 130.69     | 1.26           |
| 2017/02/15 23:33 | 4.58       | 88.19      | 0.95           |
| 2017/02/15 23:48 | 4.40       | 81.81      | 0.93           |
| 2017/02/16 00:03 | 4.19       | 72.15      | 0.87           |
| 2017/02/16 00:18 | 4.18       | 67.57      | 0.82           |
| 2017/02/16 00:33 | 4.08       | 65.56      | 0.82           |
| 2017/02/16 00:48 | 4.08       | 65.56      | 0.82           |
| 2017/02/16 01:03 | 3.98       | 63.61      | 0.82           |
| 2017/02/16 01:18 | 4.08       | 67.15      | 0.84           |
| 2017/02/16 01:33 | 4.08       | 67.15      | 0.84           |
| 2017/02/16 01:48 | 4.05       | 66.87      | 0.84           |
| 2017/02/16 02:03 | 3.97       | 70.69      | 0.91           |
| 2017/02/16 02:18 | 3.93       | 76.94      | 1.01           |
| 2017/02/16 02:33 | 3.93       | 81.74      | 1.07           |
| 2017/02/16 02:48 | 3.90       | 80.97      | 1.07           |
| 2017/02/16 03:03 | 3.87       | 75.56      | 1.01           |
| 2017/02/16 03:18 | 3.87       | 80.28      | 1.07           |
| 2017/02/16 03:33 | 3.87       | 92.43      | 1.23           |
| 2017/02/16 03:48 | 3.87       | 69.93      | 0.93           |
| 2017/02/16 04:03 | 3.86       | 68.82      | 0.92           |
| 2017/02/16 04:18 | 3.86       | 65.76      | 0.88           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 04:33 | 3.86       | 64.03      | 0.86           |
| 2017/02/16 04:48 | 3.96       | 66.11      | 0.86           |
| 2017/02/16 05:03 | 3.96       | 66.11      | 0.86           |
| 2017/02/16 05:18 | 4.00       | 68.06      | 0.87           |
| 2017/02/16 05:33 | 4.04       | 68.96      | 0.87           |
| 2017/02/16 05:48 | 4.09       | 71.04      | 0.88           |
| 2017/02/16 06:03 | 4.21       | 74.51      | 0.89           |
| 2017/02/16 06:18 | 4.50       | 91.32      | 1.01           |
| 2017/02/16 06:33 | 4.72       | 106.39     | 1.11           |
| 2017/02/16 06:48 | 4.73       | 127.71     | 1.32           |
| 2017/02/16 07:03 | 5.09       | 157.29     | 1.49           |
| 2017/02/16 07:18 | 5.36       | 166.60     | 1.49           |
| 2017/02/16 07:33 | 5.62       | 169.79     | 1.44           |
| 2017/02/16 07:48 | 5.62       | 187.57     | 1.59           |
| 2017/02/16 08:03 | 5.77       | 202.50     | 1.67           |
| 2017/02/16 08:18 | 5.84       | 196.87     | 1.61           |
| 2017/02/16 08:33 | 5.89       | 214.17     | 1.73           |
| 2017/02/16 08:48 | 5.84       | 212.57     | 1.73           |
| 2017/02/16 09:03 | 5.77       | 194.37     | 1.61           |
| 2017/02/16 09:18 | 5.39       | 161.60     | 1.44           |
| 2017/02/16 09:33 | 5.39       | 161.60     | 1.44           |
| 2017/02/16 09:48 | 5.39       | 161.60     | 1.44           |
| 2017/02/16 10:03 | 5.39       | 206.11     | 1.84           |
| 2017/02/16 10:18 | 5.37       | 205.49     | 1.84           |
| 2017/02/16 10:33 | 5.37       | 205.49     | 1.84           |
| 2017/02/16 10:48 | 5.34       | 177.15     | 1.59           |
| 2017/02/16 11:03 | 5.09       | 167.71     | 1.59           |
| 2017/02/16 11:18 | 5.09       | 125.49     | 1.19           |
| 2017/02/16 11:33 | 5.09       | 125.49     | 1.19           |
| 2017/02/16 11:48 | 5.19       | 108.19     | 1.01           |
| 2017/02/16 12:03 | 5.19       | 170.07     | 1.58           |
| 2017/02/16 12:18 | 5.19       | 149.37     | 1.39           |
| 2017/02/16 12:33 | 5.15       | 148.06     | 1.39           |
| 2017/02/16 12:48 | 5.12       | 122.71     | 1.16           |
| 2017/02/16 13:03 | 5.12       | 147.08     | 1.39           |
| 2017/02/16 13:18 | 5.12       | 147.08     | 1.39           |
| 2017/02/16 13:33 | 4.64       | 109.03     | 1.16           |
| 2017/02/16 13:48 | 4.59       | 132.71     | 1.43           |
| 2017/02/16 14:03 | 4.59       | 132.71     | 1.43           |
| 2017/02/16 14:18 | 4.59       | 129.72     | 1.39           |
| 2017/02/16 14:33 | 4.59       | 129.72     | 1.39           |
| 2017/02/16 14:48 | 4.59       | 129.72     | 1.39           |
| 2017/02/16 15:03 | 4.65       | 131.60     | 1.39           |
| 2017/02/16 15:18 | 4.69       | 136.39     | 1.43           |
| 2017/02/16 15:33 | 4.80       | 148.96     | 1.52           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 15:48 | 4.86       | 151.04     | 1.52           |
| 2017/02/16 16:03 | 5.02       | 157.15     | 1.52           |
| 2017/02/16 16:18 | 5.02       | 143.68     | 1.39           |
| 2017/02/16 16:33 | 5.02       | 143.68     | 1.39           |
| 2017/02/16 16:48 | 5.08       | 139.31     | 1.33           |
| 2017/02/16 17:03 | 5.08       | 139.31     | 1.33           |
| 2017/02/16 17:18 | 5.00       | 136.67     | 1.33           |
| 2017/02/16 17:33 | 5.00       | 153.75     | 1.49           |
| 2017/02/16 17:48 | 5.21       | 161.25     | 1.49           |
| 2017/02/16 18:03 | 5.04       | 155.28     | 1.49           |
| 2017/02/16 18:18 | 5.19       | 166.67     | 1.55           |
| 2017/02/16 18:33 | 5.21       | 191.39     | 1.77           |
| 2017/02/16 18:48 | 5.32       | 203.12     | 1.84           |
| 2017/02/16 19:03 | 5.46       | 210.28     | 1.85           |
| 2017/02/16 19:18 | 5.46       | 210.28     | 1.85           |
| 2017/02/16 19:33 | 5.50       | 210.83     | 1.84           |
| 2017/02/16 19:48 | 5.58       | 184.44     | 1.58           |
| 2017/02/16 20:03 | 5.58       | 174.51     | 1.50           |
| 2017/02/16 20:18 | 5.58       | 156.32     | 1.34           |
| 2017/02/16 20:33 | 5.58       | 174.51     | 1.50           |
| 2017/02/16 20:48 | 5.51       | 172.08     | 1.50           |
| 2017/02/16 21:03 | 5.50       | 171.60     | 1.50           |
| 2017/02/16 21:18 | 5.50       | 173.54     | 1.51           |
| 2017/02/16 21:33 | 5.50       | 173.54     | 1.51           |
| 2017/02/16 21:48 | 5.51       | 174.24     | 1.51           |
| 2017/02/16 22:03 | 5.39       | 169.79     | 1.51           |
| 2017/02/16 22:18 | 5.36       | 163.19     | 1.46           |
| 2017/02/16 22:33 | 5.36       | 163.19     | 1.46           |
| 2017/02/16 22:48 | 5.01       | 125.56     | 1.22           |
| 2017/02/16 23:03 | 4.96       | 109.03     | 1.07           |
| 2017/02/16 23:18 | 4.94       | 108.68     | 1.07           |
| 2017/02/16 23:33 | 4.80       | 105.07     | 1.07           |
| 2017/02/16 23:48 | 4.75       | 95.90      | 0.99           |
| 2017/02/17 00:03 | 4.64       | 93.19      | 0.99           |
| 2017/02/17 00:18 | 4.58       | 82.92      | 0.89           |
| 2017/02/17 00:33 | 4.43       | 79.58      | 0.89           |
| 2017/02/17 00:48 | 4.23       | 72.78      | 0.87           |
| 2017/02/17 01:03 | 4.08       | 67.15      | 0.84           |
| 2017/02/17 01:18 | 3.94       | 64.31      | 0.84           |
| 2017/02/17 01:33 | 3.91       | 63.68      | 0.84           |
| 2017/02/17 01:48 | 3.83       | 93.26      | 1.26           |
| 2017/02/17 02:03 | 3.75       | 92.57      | 1.28           |
| 2017/02/17 02:18 | 3.75       | 92.57      | 1.28           |
| 2017/02/17 02:33 | 3.68       | 88.54      | 1.26           |
| 2017/02/17 02:48 | 3.62       | 82.36      | 1.19           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/17 03:03 | 3.41       | 76.18      | 1.19           |
| 2017/02/17 03:18 | 3.37       | 63.75      | 1.02           |
| 2017/02/17 03:33 | 3.36       | 63.40      | 1.02           |
| 2017/02/17 03:48 | 3.34       | 61.11      | 0.98           |
| 2017/02/17 04:03 | 3.29       | 59.72      | 0.98           |
| 2017/02/17 04:18 | 3.29       | 59.72      | 0.98           |
| 2017/02/17 04:33 | 3.29       | 63.89      | 1.05           |
| 2017/02/17 04:48 | 3.52       | 70.00      | 1.05           |
| 2017/02/17 05:03 | 3.57       | 73.89      | 1.09           |
| 2017/02/17 05:18 | 3.59       | 71.87      | 1.05           |
| 2017/02/17 05:33 | 3.64       | 72.01      | 1.04           |
| 2017/02/17 05:48 | 3.84       | 48.40      | 0.65           |
| 2017/02/17 06:03 | 4.23       | 49.31      | 0.59           |
| 2017/02/17 06:18 | 4.26       | 49.72      | 0.59           |
| 2017/02/17 06:33 | 4.34       | 56.53      | 0.65           |
| 2017/02/17 06:48 | 4.52       | 86.74      | 0.95           |
| 2017/02/17 07:03 | 4.55       | 128.12     | 1.39           |
| 2017/02/17 07:18 | 4.87       | 141.18     | 1.41           |
| 2017/02/17 07:33 | 5.18       | 149.31     | 1.39           |
| 2017/02/17 07:48 | 5.18       | 151.60     | 1.41           |
| 2017/02/17 08:03 | 5.22       | 152.99     | 1.41           |
| 2017/02/17 08:18 | 5.51       | 181.39     | 1.58           |
| 2017/02/17 08:33 | 5.51       | 183.68     | 1.60           |
| 2017/02/17 08:48 | 5.52       | 186.87     | 1.62           |
| 2017/02/17 09:03 | 5.51       | 183.68     | 1.60           |
| 2017/02/17 09:18 | 5.46       | 181.67     | 1.60           |
| 2017/02/17 09:33 | 5.39       | 163.68     | 1.46           |
| 2017/02/17 09:48 | 5.25       | 158.89     | 1.46           |



# Site Report

02-15-2017

**Confidential Proprietary Information**

David Evans

~2 Hermosa Av

2017.01-02 Site 6 Hermosa Av MH

Manhole No. 1001

Access:

Manhole within NE corner of intersection of Hermosa Av & Herondo St

System Type:

Sanitary ☒

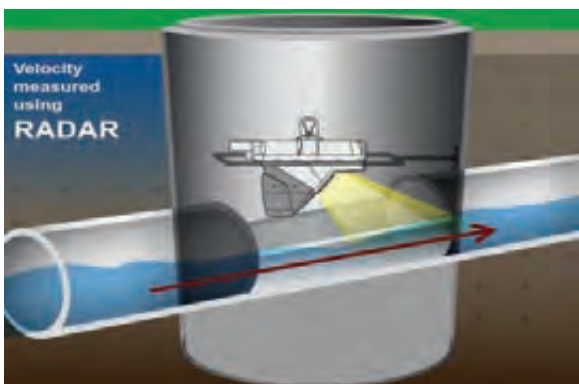
Storm ☐

Install Date: 1/19/2017

Map



Technology



Sewer Plan



## Flow Meter

Meter Depth: 91"

Map Coordinates: 33.852629, -118.397388

Moderate open channel hydraulics

| Avg Velocity | Avg Measured Level | Multiplier |
|--------------|--------------------|------------|
| 1.33 fps     | 3.75"              | 1          |

## Gas

| O2   | H2S | CO | LEL |
|------|-----|----|-----|
| 20.9 | 0   | 0  | 0   |

## Notes

\*

## Traffic Safety

Used cones, signs & a flagger.

## Land Use

| Residential | Commercial | Industrial | Trunk |
|-------------|------------|------------|-------|
|             | X          |            |       |

|                          |            |
|--------------------------|------------|
| Manhole Depth            | 122"       |
| Monitored Pipe Size      | 24"        |
| Inner Pipe Size (In/Out) | 24"/24"    |
| Pipe Shape               | Round      |
| Pipe Condition           | Good       |
| Manhole Material         | Concrete   |
| Silt                     | 0          |
| Velocity Profile Data    | *          |
| Velocity Profile Taken   | 0.4 2-D    |
| Sensor Offset            | 31.43"     |
| Sensor Dist. to Crown    | 7.43"      |
| Sensor Direction         | Downstream |
| Flow Heading             | South      |



## Meter Site Document

David Evans

2017.01-02 Site 6 Hermosa Av MH

~2 Hermosa Av

Site



Manhole Hydraulics



Installation Process



Installed





Utility Systems Science and Software

Report Date: 02/20/2017  
Customer: David Evans  
Group: Hermosa Beach  
SiteID: 2639

### Statistics for 2017.01-02 Site 6 Hermosa Av MH: 01/20/2017 thru 02/16/2017

|              | Flow (GPM)    |                |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |              |             |                  |             |
|--------------|---------------|----------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|--------------|-------------|------------------|-------------|
| Date         | Avg           | Max            | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max          | Min         | Total Gal        | Rain        |
| 1/20/17      | 242.66        | 705.90         | 85.14        | 0.35        | 1.02        | 0.12        | 1.54           | 1.81        | 1.13        | 3.96           | 7.82         | 2.36        | 349,436          | 1.29        |
| 1/21/17      | 231.96        | 330.69         | 79.58        | 0.33        | 0.48        | 0.11        | 1.64           | 1.90        | 1.13        | 3.66           | 4.52         | 2.33        | 334,017          |             |
| 1/22/17      | 379.41        | 1843.81        | 89.17        | 0.55        | 2.66        | 0.13        | 1.42           | 2.00        | 0.87        | 5.85           | 23.66        | 2.44        | 546,350          | 3.72        |
| <b>Week:</b> | <b>284.68</b> | <b>1843.81</b> | <b>79.58</b> | <b>0.41</b> | <b>2.66</b> | <b>0.11</b> | <b>1.53</b>    | <b>2.00</b> | <b>0.87</b> | <b>4.49</b>    | <b>23.66</b> | <b>2.33</b> | <b>1,229,803</b> | <b>5.01</b> |
| 1/23/17      | 217.82        | 359.44         | 89.31        | 0.31        | 0.52        | 0.13        | 1.60           | 1.91        | 1.21        | 3.58           | 4.71         | 2.29        | 313,663          | 0.13        |
| 1/24/17      | 223.10        | 327.43         | 94.17        | 0.32        | 0.47        | 0.14        | 1.62           | 1.89        | 0.96        | 3.64           | 5.80         | 2.44        | 321,266          |             |
| 1/25/17      | 216.65        | 332.15         | 88.82        | 0.31        | 0.48        | 0.13        | 1.56           | 1.92        | 0.85        | 3.64           | 5.27         | 2.43        | 311,975          |             |
| 1/26/17      | 229.88        | 399.23         | 89.72        | 0.33        | 0.58        | 0.13        | 1.60           | 1.87        | 1.18        | 3.73           | 5.48         | 2.46        | 331,026          |             |
| 1/27/17      | 232.27        | 332.50         | 87.43        | 0.33        | 0.48        | 0.13        | 1.63           | 1.90        | 1.15        | 3.70           | 4.79         | 2.40        | 334,466          |             |
| 1/28/17      | 236.45        | 345.90         | 98.19        | 0.34        | 0.50        | 0.14        | 1.54           | 1.87        | 0.83        | 3.92           | 5.50         | 2.47        | 340,481          |             |
| 1/29/17      | 237.31        | 357.78         | 84.65        | 0.34        | 0.52        | 0.12        | 1.57           | 1.85        | 1.16        | 3.83           | 5.08         | 2.37        | 341,731          |             |
| <b>Week:</b> | <b>227.64</b> | <b>399.23</b>  | <b>84.65</b> | <b>0.33</b> | <b>0.58</b> | <b>0.12</b> | <b>1.59</b>    | <b>1.92</b> | <b>0.83</b> | <b>3.72</b>    | <b>5.80</b>  | <b>2.29</b> | <b>2,294,607</b> | <b>0.13</b> |
| 1/30/17      | 220.60        | 369.79         | 79.65        | 0.32        | 0.53        | 0.11        | 1.62           | 1.90        | 1.06        | 3.55           | 4.71         | 2.21        | 317,669          |             |
| 1/31/17      | 228.92        | 404.44         | 84.58        | 0.33        | 0.58        | 0.12        | 1.61           | 1.98        | 1.09        | 3.69           | 5.59         | 2.34        | 329,642          |             |
| 2/1/17       | 224.06        | 368.61         | 83.33        | 0.32        | 0.53        | 0.12        | 1.58           | 1.87        | 1.21        | 3.67           | 5.07         | 2.29        | 322,649          |             |
| 2/2/17       | 211.08        | 325.35         | 81.39        | 0.30        | 0.47        | 0.12        | 1.60           | 1.92        | 1.20        | 3.50           | 5.58         | 2.22        | 303,959          |             |
| 2/3/17       | 225.99        | 440.62         | 74.72        | 0.33        | 0.63        | 0.11        | 1.48           | 1.85        | 0.98        | 3.93           | 5.91         | 2.26        | 325,419          | 0.39        |

|                | Flow (GPM)    |                |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |              |             |                  |             |
|----------------|---------------|----------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|--------------|-------------|------------------|-------------|
| Date           | Avg           | Max            | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max          | Min         | Total Gal        | Rain        |
| 2/4/17         | 252.81        | 344.79         | 112.57       | 0.36        | 0.50        | 0.16        | 1.67           | 1.91        | 1.39        | 3.88           | 4.71         | 2.57        | 364,041          |             |
| 2/5/17         | 253.18        | 422.92         | 113.75       | 0.36        | 0.61        | 0.16        | 1.59           | 1.86        | 1.21        | 4.05           | 6.83         | 2.59        | 364,580          |             |
| <b>Week:</b>   | <b>230.95</b> | <b>440.62</b>  | <b>74.72</b> | <b>0.33</b> | <b>0.63</b> | <b>0.11</b> | <b>1.59</b>    | <b>1.98</b> | <b>0.98</b> | <b>3.75</b>    | <b>6.83</b>  | <b>2.21</b> | <b>2,327,958</b> | <b>0.39</b> |
| 2/6/17         | 257.80        | 494.72         | 109.44       | 0.37        | 0.71        | 0.16        | 1.62           | 1.90        | 1.26        | 4.06           | 6.98         | 2.65        | 371,229          | 1.43        |
| 2/7/17         | 215.93        | 336.94         | 137.15       | 0.31        | 0.49        | 0.20        | 1.51           | 1.83        | 1.06        | 3.76           | 4.77         | 2.80        | 310,934          | 0.64        |
| 2/8/17         | 165.80        | 260.55         | 60.83        | 0.24        | 0.38        | 0.09        | 1.18           | 1.58        | 0.81        | 3.66           | 5.37         | 2.40        | 238,750          | 0.07        |
| 2/9/17         | 168.06        | 268.75         | 54.37        | 0.24        | 0.39        | 0.08        | 1.22           | 1.61        | 0.79        | 3.60           | 4.79         | 2.22        | 242,002          |             |
| 2/10/17        | 177.30        | 288.82         | 54.17        | 0.26        | 0.42        | 0.08        | 1.25           | 1.58        | 0.78        | 3.72           | 5.15         | 2.30        | 255,314          | 0.33        |
| 2/11/17        | 172.64        | 283.12         | 61.67        | 0.25        | 0.41        | 0.09        | 1.19           | 1.49        | 0.81        | 3.78           | 6.19         | 2.44        | 248,598          | 0.01        |
| 2/12/17        | 168.67        | 266.74         | 59.03        | 0.24        | 0.38        | 0.09        | 1.17           | 1.56        | 0.79        | 3.72           | 5.32         | 2.41        | 242,878          |             |
| <b>Week:</b>   | <b>189.46</b> | <b>494.72</b>  | <b>54.17</b> | <b>0.27</b> | <b>0.71</b> | <b>0.08</b> | <b>1.31</b>    | <b>1.90</b> | <b>0.78</b> | <b>3.76</b>    | <b>6.98</b>  | <b>2.22</b> | <b>1,909,707</b> | <b>2.48</b> |
| 2/13/17        | 154.05        | 227.85         | 51.39        | 0.22        | 0.33        | 0.07        | 1.17           | 1.57        | 0.74        | 3.51           | 5.61         | 2.32        | 221,832          |             |
| 2/14/17        | 168.66        | 268.19         | 47.29        | 0.24        | 0.39        | 0.07        | 1.23           | 1.60        | 0.78        | 3.56           | 4.40         | 2.11        | 242,872          |             |
| 2/15/17        | 155.47        | 265.90         | 46.67        | 0.22        | 0.38        | 0.07        | 1.20           | 1.51        | 0.68        | 3.46           | 4.73         | 2.29        | 223,878          |             |
| 2/16/17        | 150.57        | 241.46         | 52.99        | 0.22        | 0.35        | 0.08        | 1.19           | 1.58        | 0.82        | 3.40           | 4.32         | 2.19        | 216,826          |             |
| <b>Week:</b>   | <b>157.19</b> | <b>268.19</b>  | <b>46.67</b> | <b>0.23</b> | <b>0.39</b> | <b>0.07</b> | <b>1.20</b>    | <b>1.60</b> | <b>0.68</b> | <b>3.48</b>    | <b>5.61</b>  | <b>2.11</b> | <b>905,409</b>   |             |
| <b>Totals:</b> | <b>214.97</b> | <b>1843.81</b> | <b>46.67</b> | <b>0.31</b> | <b>2.66</b> | <b>0.07</b> | <b>1.46</b>    | <b>2.00</b> | <b>0.68</b> | <b>3.79</b>    | <b>23.66</b> | <b>2.11</b> | <b>8,667,484</b> | <b>8.01</b> |





Utility Systems Science and Software

Report Date: 02/20/2017

Customer: US3

Group: Hermosa Beach

SiteID: 2639

Data for 2017.01-02 Site 6 Hermosa Av MH: 1/19/2017  
thru 2/17/2017

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 11:21 | 3.72       | 267.78     | 1.93           |
| 2017/01/19 11:36 | 3.93       | 228.19     | 1.52           |
| 2017/01/19 11:51 | 4.02       | 285.62     | 1.83           |
| 2017/01/19 12:06 | 3.79       | 267.15     | 1.87           |
| 2017/01/19 12:21 | 3.79       | 261.74     | 1.83           |
| 2017/01/19 12:36 | 3.79       | 243.19     | 1.70           |
| 2017/01/19 12:51 | 3.64       | 246.60     | 1.83           |
| 2017/01/19 13:06 | 3.64       | 229.17     | 1.70           |
| 2017/01/19 13:21 | 3.64       | 227.08     | 1.69           |
| 2017/01/19 13:36 | 3.52       | 217.08     | 1.69           |
| 2017/01/19 13:51 | 3.64       | 226.04     | 1.68           |
| 2017/01/19 14:06 | 3.52       | 216.11     | 1.68           |
| 2017/01/19 14:21 | 3.52       | 216.11     | 1.68           |
| 2017/01/19 14:36 | 3.55       | 214.24     | 1.65           |
| 2017/01/19 14:51 | 3.55       | 196.94     | 1.51           |
| 2017/01/19 15:06 | 3.55       | 196.94     | 1.51           |
| 2017/01/19 15:21 | 3.55       | 196.94     | 1.51           |
| 2017/01/19 15:36 | 3.51       | 193.61     | 1.51           |
| 2017/01/19 15:51 | 3.48       | 210.90     | 1.67           |
| 2017/01/19 16:06 | 3.47       | 209.65     | 1.67           |
| 2017/01/19 16:21 | 3.43       | 209.58     | 1.70           |
| 2017/01/19 16:36 | 3.32       | 199.79     | 1.70           |
| 2017/01/19 16:51 | 3.32       | 199.79     | 1.70           |
| 2017/01/19 17:06 | 3.32       | 199.79     | 1.70           |
| 2017/01/19 17:21 | 3.51       | 219.37     | 1.72           |
| 2017/01/19 17:36 | 3.52       | 221.80     | 1.72           |
| 2017/01/19 17:51 | 3.55       | 224.37     | 1.72           |
| 2017/01/19 18:06 | 3.69       | 237.15     | 1.72           |
| 2017/01/19 18:21 | 3.71       | 218.82     | 1.58           |
| 2017/01/19 18:36 | 3.72       | 220.00     | 1.58           |
| 2017/01/19 18:51 | 3.72       | 220.00     | 1.58           |
| 2017/01/19 19:06 | 3.94       | 235.35     | 1.56           |
| 2017/01/19 19:21 | 3.97       | 258.96     | 1.70           |
| 2017/01/19 19:36 | 3.97       | 258.96     | 1.70           |
| 2017/01/19 19:51 | 3.97       | 280.90     | 1.84           |
| 2017/01/19 20:06 | 3.97       | 280.90     | 1.84           |
| 2017/01/19 20:21 | 3.97       | 280.90     | 1.84           |
| 2017/01/19 20:36 | 3.97       | 246.87     | 1.62           |
| 2017/01/19 20:51 | 4.86       | 276.74     | 1.36           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 21:06 | 5.01       | 263.19     | 1.23           |
| 2017/01/19 21:21 | 5.01       | 263.19     | 1.23           |
| 2017/01/19 21:36 | 4.86       | 276.74     | 1.36           |
| 2017/01/19 21:51 | 4.55       | 255.00     | 1.37           |
| 2017/01/19 22:06 | 4.25       | 294.72     | 1.75           |
| 2017/01/19 22:21 | 4.23       | 300.55     | 1.79           |
| 2017/01/19 22:36 | 4.23       | 300.55     | 1.79           |
| 2017/01/19 22:51 | 4.21       | 290.62     | 1.75           |
| 2017/01/19 23:06 | 4.00       | 279.51     | 1.81           |
| 2017/01/19 23:21 | 3.71       | 248.40     | 1.80           |
| 2017/01/19 23:36 | 3.51       | 229.72     | 1.80           |
| 2017/01/19 23:51 | 3.50       | 228.40     | 1.80           |
| 2017/01/20 00:06 | 3.36       | 215.35     | 1.80           |
| 2017/01/20 00:21 | 3.32       | 189.72     | 1.61           |
| 2017/01/20 00:36 | 3.11       | 172.64     | 1.61           |
| 2017/01/20 00:51 | 3.02       | 152.43     | 1.48           |
| 2017/01/20 01:06 | 3.01       | 151.39     | 1.48           |
| 2017/01/20 01:21 | 2.83       | 138.33     | 1.48           |
| 2017/01/20 01:36 | 2.82       | 126.60     | 1.36           |
| 2017/01/20 01:51 | 2.68       | 114.10     | 1.32           |
| 2017/01/20 02:06 | 2.64       | 114.86     | 1.36           |
| 2017/01/20 02:21 | 2.62       | 114.03     | 1.36           |
| 2017/01/20 02:36 | 2.62       | 119.10     | 1.43           |
| 2017/01/20 02:51 | 2.36       | 101.94     | 1.43           |
| 2017/01/20 03:06 | 2.36       | 101.94     | 1.43           |
| 2017/01/20 03:21 | 2.36       | 98.12      | 1.37           |
| 2017/01/20 03:36 | 2.36       | 90.83      | 1.27           |
| 2017/01/20 03:51 | 2.44       | 85.14      | 1.13           |
| 2017/01/20 04:06 | 2.44       | 85.14      | 1.13           |
| 2017/01/20 04:21 | 2.71       | 98.89      | 1.13           |
| 2017/01/20 04:36 | 2.71       | 98.89      | 1.13           |
| 2017/01/20 04:51 | 2.87       | 113.61     | 1.19           |
| 2017/01/20 05:06 | 2.87       | 122.78     | 1.29           |
| 2017/01/20 05:21 | 2.87       | 122.78     | 1.29           |
| 2017/01/20 05:36 | 2.87       | 125.28     | 1.31           |
| 2017/01/20 05:51 | 2.80       | 120.90     | 1.31           |
| 2017/01/20 06:06 | 2.80       | 120.90     | 1.31           |
| 2017/01/20 06:21 | 2.87       | 127.15     | 1.33           |
| 2017/01/20 06:36 | 3.34       | 159.86     | 1.34           |
| 2017/01/20 06:51 | 3.36       | 159.72     | 1.33           |
| 2017/01/20 07:06 | 3.52       | 172.57     | 1.34           |
| 2017/01/20 07:21 | 4.30       | 241.39     | 1.41           |
| 2017/01/20 07:36 | 4.32       | 269.86     | 1.57           |
| 2017/01/20 07:51 | 4.47       | 292.01     | 1.61           |
| 2017/01/20 08:06 | 4.72       | 318.40     | 1.63           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 08:21 | 4.72       | 319.03     | 1.63           |
| 2017/01/20 08:36 | 4.57       | 304.30     | 1.63           |
| 2017/01/20 08:51 | 4.48       | 313.89     | 1.72           |
| 2017/01/20 09:06 | 4.48       | 313.89     | 1.72           |
| 2017/01/20 09:21 | 4.44       | 309.72     | 1.72           |
| 2017/01/20 09:36 | 4.22       | 287.64     | 1.72           |
| 2017/01/20 09:51 | 4.15       | 283.12     | 1.74           |
| 2017/01/20 10:06 | 4.15       | 295.28     | 1.81           |
| 2017/01/20 10:21 | 4.15       | 283.12     | 1.74           |
| 2017/01/20 10:36 | 4.29       | 291.60     | 1.71           |
| 2017/01/20 10:51 | 4.29       | 277.57     | 1.63           |
| 2017/01/20 11:06 | 4.36       | 284.03     | 1.63           |
| 2017/01/20 11:21 | 5.18       | 346.74     | 1.55           |
| 2017/01/20 11:36 | 5.66       | 412.85     | 1.63           |
| 2017/01/20 11:51 | 6.26       | 485.00     | 1.66           |
| 2017/01/20 12:06 | 7.08       | 615.69     | 1.77           |
| 2017/01/20 12:21 | 7.73       | 695.62     | 1.77           |
| 2017/01/20 12:36 | 7.82       | 705.90     | 1.77           |
| 2017/01/20 12:51 | 7.82       | 493.12     | 1.24           |
| 2017/01/20 13:06 | 7.82       | 493.12     | 1.24           |
| 2017/01/20 13:21 | 6.59       | 389.51     | 1.24           |
| 2017/01/20 13:36 | 5.69       | 332.22     | 1.30           |
| 2017/01/20 13:51 | 5.16       | 342.36     | 1.54           |
| 2017/01/20 14:06 | 4.05       | 252.92     | 1.61           |
| 2017/01/20 14:21 | 4.05       | 252.92     | 1.61           |
| 2017/01/20 14:36 | 3.90       | 239.51     | 1.61           |
| 2017/01/20 14:51 | 3.77       | 228.26     | 1.61           |
| 2017/01/20 15:06 | 3.77       | 216.11     | 1.52           |
| 2017/01/20 15:21 | 3.68       | 208.12     | 1.52           |
| 2017/01/20 15:36 | 3.66       | 211.53     | 1.55           |
| 2017/01/20 15:51 | 3.66       | 206.94     | 1.52           |
| 2017/01/20 16:06 | 3.66       | 211.53     | 1.55           |
| 2017/01/20 16:21 | 3.73       | 217.36     | 1.55           |
| 2017/01/20 16:36 | 3.86       | 218.61     | 1.49           |
| 2017/01/20 16:51 | 3.94       | 225.42     | 1.49           |
| 2017/01/20 17:06 | 3.94       | 271.39     | 1.79           |
| 2017/01/20 17:21 | 3.94       | 263.75     | 1.74           |
| 2017/01/20 17:36 | 3.91       | 262.22     | 1.75           |
| 2017/01/20 17:51 | 3.91       | 268.61     | 1.79           |
| 2017/01/20 18:06 | 3.91       | 262.22     | 1.75           |
| 2017/01/20 18:21 | 3.93       | 262.43     | 1.74           |
| 2017/01/20 18:36 | 3.94       | 243.47     | 1.61           |
| 2017/01/20 18:51 | 3.94       | 243.47     | 1.61           |
| 2017/01/20 19:06 | 3.94       | 240.42     | 1.59           |
| 2017/01/20 19:21 | 3.97       | 245.90     | 1.61           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 19:36 | 3.94       | 255.69     | 1.69           |
| 2017/01/20 19:51 | 3.94       | 256.11     | 1.69           |
| 2017/01/20 20:06 | 4.05       | 266.11     | 1.69           |
| 2017/01/20 20:21 | 4.07       | 267.43     | 1.69           |
| 2017/01/20 20:36 | 4.05       | 252.71     | 1.61           |
| 2017/01/20 20:51 | 4.09       | 239.37     | 1.50           |
| 2017/01/20 21:06 | 4.11       | 203.82     | 1.27           |
| 2017/01/20 21:21 | 4.11       | 240.55     | 1.50           |
| 2017/01/20 21:36 | 4.01       | 248.96     | 1.61           |
| 2017/01/20 21:51 | 3.91       | 248.75     | 1.66           |
| 2017/01/20 22:06 | 3.80       | 238.61     | 1.66           |
| 2017/01/20 22:21 | 3.80       | 244.30     | 1.70           |
| 2017/01/20 22:36 | 3.76       | 234.79     | 1.66           |
| 2017/01/20 22:51 | 3.80       | 238.33     | 1.66           |
| 2017/01/20 23:06 | 3.65       | 222.57     | 1.64           |
| 2017/01/20 23:21 | 3.65       | 224.65     | 1.66           |
| 2017/01/20 23:36 | 3.69       | 223.96     | 1.63           |
| 2017/01/20 23:51 | 3.69       | 223.96     | 1.63           |
| 2017/01/21 00:06 | 3.65       | 227.92     | 1.68           |
| 2017/01/21 00:21 | 3.61       | 224.17     | 1.68           |
| 2017/01/21 00:36 | 3.37       | 197.15     | 1.63           |
| 2017/01/21 00:51 | 3.30       | 191.25     | 1.63           |
| 2017/01/21 01:06 | 3.29       | 189.72     | 1.63           |
| 2017/01/21 01:21 | 3.29       | 186.32     | 1.60           |
| 2017/01/21 01:36 | 3.25       | 178.75     | 1.57           |
| 2017/01/21 01:51 | 3.18       | 171.53     | 1.55           |
| 2017/01/21 02:06 | 3.08       | 152.15     | 1.44           |
| 2017/01/21 02:21 | 3.01       | 147.15     | 1.44           |
| 2017/01/21 02:36 | 3.01       | 147.15     | 1.44           |
| 2017/01/21 02:51 | 2.86       | 123.26     | 1.30           |
| 2017/01/21 03:06 | 2.79       | 117.92     | 1.29           |
| 2017/01/21 03:21 | 2.79       | 103.68     | 1.13           |
| 2017/01/21 03:36 | 2.64       | 95.49      | 1.13           |
| 2017/01/21 03:51 | 2.57       | 102.22     | 1.26           |
| 2017/01/21 04:06 | 2.50       | 97.36      | 1.25           |
| 2017/01/21 04:21 | 2.47       | 96.11      | 1.26           |
| 2017/01/21 04:36 | 2.47       | 96.11      | 1.26           |
| 2017/01/21 04:51 | 2.47       | 95.76      | 1.25           |
| 2017/01/21 05:06 | 2.47       | 94.93      | 1.24           |
| 2017/01/21 05:21 | 2.47       | 94.93      | 1.24           |
| 2017/01/21 05:36 | 2.33       | 79.58      | 1.13           |
| 2017/01/21 05:51 | 2.33       | 81.32      | 1.16           |
| 2017/01/21 06:06 | 2.33       | 87.22      | 1.24           |
| 2017/01/21 06:21 | 2.40       | 100.35     | 1.37           |
| 2017/01/21 06:36 | 2.50       | 97.92      | 1.26           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 06:51 | 2.53       | 108.12     | 1.37           |
| 2017/01/21 07:06 | 2.59       | 112.50     | 1.37           |
| 2017/01/21 07:21 | 2.73       | 118.82     | 1.34           |
| 2017/01/21 07:36 | 2.73       | 118.82     | 1.34           |
| 2017/01/21 07:51 | 2.96       | 136.11     | 1.37           |
| 2017/01/21 08:06 | 3.21       | 166.18     | 1.48           |
| 2017/01/21 08:21 | 3.39       | 193.89     | 1.60           |
| 2017/01/21 08:36 | 3.52       | 205.49     | 1.60           |
| 2017/01/21 08:51 | 3.52       | 226.87     | 1.76           |
| 2017/01/21 09:06 | 3.94       | 266.74     | 1.76           |
| 2017/01/21 09:21 | 4.07       | 276.87     | 1.75           |
| 2017/01/21 09:36 | 4.09       | 279.58     | 1.75           |
| 2017/01/21 09:51 | 4.09       | 297.85     | 1.86           |
| 2017/01/21 10:06 | 4.15       | 285.07     | 1.75           |
| 2017/01/21 10:21 | 4.27       | 294.93     | 1.73           |
| 2017/01/21 10:36 | 4.27       | 294.93     | 1.73           |
| 2017/01/21 10:51 | 4.27       | 290.55     | 1.71           |
| 2017/01/21 11:06 | 4.27       | 290.55     | 1.71           |
| 2017/01/21 11:21 | 4.40       | 300.42     | 1.70           |
| 2017/01/21 11:36 | 4.40       | 300.42     | 1.70           |
| 2017/01/21 11:51 | 4.51       | 313.89     | 1.71           |
| 2017/01/21 12:06 | 4.52       | 312.71     | 1.70           |
| 2017/01/21 12:21 | 4.52       | 312.71     | 1.70           |
| 2017/01/21 12:36 | 4.51       | 330.69     | 1.80           |
| 2017/01/21 12:51 | 4.39       | 320.28     | 1.82           |
| 2017/01/21 13:06 | 4.34       | 317.01     | 1.82           |
| 2017/01/21 13:21 | 4.33       | 315.55     | 1.82           |
| 2017/01/21 13:36 | 4.33       | 325.55     | 1.88           |
| 2017/01/21 13:51 | 4.33       | 328.47     | 1.90           |
| 2017/01/21 14:06 | 4.29       | 321.11     | 1.88           |
| 2017/01/21 14:21 | 4.14       | 296.60     | 1.83           |
| 2017/01/21 14:36 | 4.12       | 300.83     | 1.86           |
| 2017/01/21 14:51 | 4.12       | 295.14     | 1.83           |
| 2017/01/21 15:06 | 4.12       | 290.00     | 1.80           |
| 2017/01/21 15:21 | 4.12       | 262.43     | 1.63           |
| 2017/01/21 15:36 | 4.07       | 279.51     | 1.77           |
| 2017/01/21 15:51 | 4.09       | 282.29     | 1.77           |
| 2017/01/21 16:06 | 4.15       | 290.83     | 1.79           |
| 2017/01/21 16:21 | 4.16       | 292.22     | 1.79           |
| 2017/01/21 16:36 | 4.16       | 302.43     | 1.85           |
| 2017/01/21 16:51 | 4.16       | 305.69     | 1.87           |
| 2017/01/21 17:06 | 4.18       | 307.15     | 1.87           |
| 2017/01/21 17:21 | 4.18       | 307.15     | 1.87           |
| 2017/01/21 17:36 | 4.16       | 305.69     | 1.87           |
| 2017/01/21 17:51 | 4.16       | 299.17     | 1.83           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 18:06 | 4.12       | 288.26     | 1.79           |
| 2017/01/21 18:21 | 4.11       | 293.47     | 1.83           |
| 2017/01/21 18:36 | 4.11       | 302.01     | 1.88           |
| 2017/01/21 18:51 | 4.09       | 292.01     | 1.83           |
| 2017/01/21 19:06 | 4.09       | 274.51     | 1.72           |
| 2017/01/21 19:21 | 4.09       | 274.51     | 1.72           |
| 2017/01/21 19:36 | 4.08       | 272.43     | 1.71           |
| 2017/01/21 19:51 | 4.04       | 268.40     | 1.71           |
| 2017/01/21 20:06 | 4.01       | 265.76     | 1.71           |
| 2017/01/21 20:21 | 4.00       | 272.43     | 1.77           |
| 2017/01/21 20:36 | 3.97       | 286.04     | 1.87           |
| 2017/01/21 20:51 | 3.97       | 286.04     | 1.87           |
| 2017/01/21 21:06 | 3.97       | 279.93     | 1.83           |
| 2017/01/21 21:21 | 3.97       | 279.93     | 1.83           |
| 2017/01/21 21:36 | 4.00       | 282.78     | 1.83           |
| 2017/01/21 21:51 | 4.02       | 285.62     | 1.83           |
| 2017/01/21 22:06 | 4.08       | 259.58     | 1.63           |
| 2017/01/21 22:21 | 4.08       | 259.58     | 1.63           |
| 2017/01/21 22:36 | 4.08       | 298.61     | 1.88           |
| 2017/01/21 22:51 | 3.86       | 244.51     | 1.67           |
| 2017/01/21 23:06 | 3.76       | 235.69     | 1.67           |
| 2017/01/21 23:21 | 3.72       | 235.07     | 1.69           |
| 2017/01/21 23:36 | 3.71       | 239.51     | 1.73           |
| 2017/01/21 23:51 | 3.71       | 233.82     | 1.69           |
| 2017/01/22 00:06 | 3.71       | 233.82     | 1.69           |
| 2017/01/22 00:21 | 3.66       | 226.67     | 1.67           |
| 2017/01/22 00:36 | 3.59       | 219.72     | 1.66           |
| 2017/01/22 00:51 | 3.66       | 225.83     | 1.66           |
| 2017/01/22 01:06 | 3.59       | 220.49     | 1.67           |
| 2017/01/22 01:21 | 3.59       | 219.72     | 1.66           |
| 2017/01/22 01:36 | 3.51       | 214.30     | 1.68           |
| 2017/01/22 01:51 | 3.27       | 193.68     | 1.68           |
| 2017/01/22 02:06 | 3.15       | 158.33     | 1.45           |
| 2017/01/22 02:21 | 3.08       | 151.32     | 1.43           |
| 2017/01/22 02:36 | 2.90       | 138.61     | 1.43           |
| 2017/01/22 02:51 | 2.87       | 136.67     | 1.43           |
| 2017/01/22 03:06 | 2.73       | 117.64     | 1.32           |
| 2017/01/22 03:21 | 2.62       | 111.67     | 1.34           |
| 2017/01/22 03:36 | 2.62       | 110.69     | 1.32           |
| 2017/01/22 03:51 | 2.58       | 108.12     | 1.32           |
| 2017/01/22 04:06 | 2.54       | 105.56     | 1.32           |
| 2017/01/22 04:21 | 2.58       | 104.24     | 1.28           |
| 2017/01/22 04:36 | 2.58       | 104.10     | 1.28           |
| 2017/01/22 04:51 | 2.55       | 102.64     | 1.28           |
| 2017/01/22 05:06 | 2.54       | 106.18     | 1.33           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 05:21 | 2.44       | 96.04      | 1.28           |
| 2017/01/22 05:36 | 2.44       | 100.49     | 1.34           |
| 2017/01/22 05:51 | 2.44       | 100.49     | 1.34           |
| 2017/01/22 06:06 | 2.51       | 97.08      | 1.24           |
| 2017/01/22 06:21 | 2.53       | 89.17      | 1.13           |
| 2017/01/22 06:36 | 2.55       | 90.21      | 1.12           |
| 2017/01/22 06:51 | 2.57       | 90.97      | 1.12           |
| 2017/01/22 07:06 | 2.72       | 109.10     | 1.24           |
| 2017/01/22 07:21 | 2.84       | 130.14     | 1.38           |
| 2017/01/22 07:36 | 2.98       | 141.18     | 1.40           |
| 2017/01/22 07:51 | 2.98       | 144.31     | 1.43           |
| 2017/01/22 08:06 | 3.18       | 167.15     | 1.51           |
| 2017/01/22 08:21 | 3.27       | 174.65     | 1.51           |
| 2017/01/22 08:36 | 3.43       | 172.85     | 1.40           |
| 2017/01/22 08:51 | 3.59       | 134.65     | 1.02           |
| 2017/01/22 09:06 | 5.46       | 231.60     | 0.96           |
| 2017/01/22 09:21 | 5.46       | 231.60     | 0.96           |
| 2017/01/22 09:36 | 5.46       | 231.60     | 0.96           |
| 2017/01/22 09:51 | 5.25       | 310.97     | 1.36           |
| 2017/01/22 10:06 | 5.25       | 310.97     | 1.36           |
| 2017/01/22 10:21 | 5.25       | 310.97     | 1.36           |
| 2017/01/22 10:36 | 5.33       | 317.99     | 1.36           |
| 2017/01/22 10:51 | 5.33       | 317.99     | 1.36           |
| 2017/01/22 11:06 | 6.52       | 309.44     | 1.00           |
| 2017/01/22 11:21 | 6.05       | 386.60     | 1.39           |
| 2017/01/22 11:36 | 6.05       | 403.68     | 1.45           |
| 2017/01/22 11:51 | 6.44       | 427.57     | 1.40           |
| 2017/01/22 12:06 | 6.84       | 465.42     | 1.40           |
| 2017/01/22 12:21 | 6.84       | 465.42     | 1.40           |
| 2017/01/22 12:36 | 6.84       | 479.58     | 1.45           |
| 2017/01/22 12:51 | 6.84       | 465.42     | 1.40           |
| 2017/01/22 13:06 | 7.29       | 475.35     | 1.31           |
| 2017/01/22 13:21 | 7.32       | 474.51     | 1.30           |
| 2017/01/22 13:36 | 7.36       | 478.26     | 1.30           |
| 2017/01/22 13:51 | 7.54       | 494.58     | 1.30           |
| 2017/01/22 14:06 | 7.75       | 518.96     | 1.32           |
| 2017/01/22 14:21 | 8.37       | 847.01     | 1.93           |
| 2017/01/22 14:36 | 8.86       | 944.79     | 2.00           |
| 2017/01/22 14:51 | 10.69      | 1213.82    | 2.00           |
| 2017/01/22 15:06 | 11.19      | 1246.94    | 1.93           |
| 2017/01/22 15:21 | 16.95      | 1402.08    | 1.32           |
| 2017/01/22 15:36 | 20.67      | 1687.36    | 1.31           |
| 2017/01/22 15:51 | 23.66      | 1282.98    | 0.91           |
| 2017/01/22 16:06 | 23.66      | 1282.98    | 0.91           |
| 2017/01/22 16:21 | 23.66      | 1282.98    | 0.91           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 16:36 | 21.53      | 1843.81    | 1.38           |
| 2017/01/22 16:51 | 18.67      | 1627.49    | 1.38           |
| 2017/01/22 17:06 | 13.33      | 1128.95    | 1.40           |
| 2017/01/22 17:21 | 7.90       | 634.23     | 1.57           |
| 2017/01/22 17:36 | 5.04       | 343.12     | 1.59           |
| 2017/01/22 17:51 | 4.40       | 298.47     | 1.68           |
| 2017/01/22 18:06 | 4.11       | 270.42     | 1.68           |
| 2017/01/22 18:21 | 4.11       | 271.87     | 1.69           |
| 2017/01/22 18:36 | 4.11       | 271.87     | 1.69           |
| 2017/01/22 18:51 | 4.12       | 273.26     | 1.69           |
| 2017/01/22 19:06 | 4.23       | 283.89     | 1.69           |
| 2017/01/22 19:21 | 4.23       | 283.89     | 1.69           |
| 2017/01/22 19:36 | 4.23       | 290.28     | 1.73           |
| 2017/01/22 19:51 | 4.21       | 270.55     | 1.63           |
| 2017/01/22 20:06 | 4.19       | 269.30     | 1.63           |
| 2017/01/22 20:21 | 4.19       | 266.53     | 1.61           |
| 2017/01/22 20:36 | 4.21       | 270.55     | 1.63           |
| 2017/01/22 20:51 | 4.21       | 270.55     | 1.63           |
| 2017/01/22 21:06 | 4.21       | 261.18     | 1.57           |
| 2017/01/22 21:21 | 4.21       | 259.44     | 1.56           |
| 2017/01/22 21:36 | 4.21       | 259.44     | 1.56           |
| 2017/01/22 21:51 | 5.47       | 240.21     | 0.99           |
| 2017/01/22 22:06 | 5.66       | 222.15     | 0.87           |
| 2017/01/22 22:21 | 5.66       | 222.15     | 0.87           |
| 2017/01/22 22:36 | 5.66       | 252.36     | 0.99           |
| 2017/01/22 22:51 | 3.90       | 233.12     | 1.57           |
| 2017/01/22 23:06 | 3.72       | 217.71     | 1.57           |
| 2017/01/22 23:21 | 3.72       | 217.71     | 1.57           |
| 2017/01/22 23:36 | 3.65       | 211.80     | 1.57           |
| 2017/01/22 23:51 | 3.65       | 209.17     | 1.55           |
| 2017/01/23 00:06 | 3.51       | 193.40     | 1.51           |
| 2017/01/23 00:21 | 3.43       | 190.90     | 1.55           |
| 2017/01/23 00:36 | 3.29       | 168.75     | 1.45           |
| 2017/01/23 00:51 | 3.15       | 158.54     | 1.45           |
| 2017/01/23 01:06 | 2.86       | 143.61     | 1.52           |
| 2017/01/23 01:21 | 2.80       | 143.96     | 1.56           |
| 2017/01/23 01:36 | 2.80       | 143.96     | 1.56           |
| 2017/01/23 01:51 | 2.64       | 131.60     | 1.56           |
| 2017/01/23 02:06 | 2.51       | 118.82     | 1.52           |
| 2017/01/23 02:21 | 2.41       | 102.78     | 1.39           |
| 2017/01/23 02:36 | 2.33       | 96.18      | 1.37           |
| 2017/01/23 02:51 | 2.33       | 94.79      | 1.35           |
| 2017/01/23 03:06 | 2.29       | 92.36      | 1.35           |
| 2017/01/23 03:21 | 2.29       | 93.89      | 1.37           |
| 2017/01/23 03:36 | 2.39       | 96.04      | 1.32           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 03:51 | 2.39       | 99.79      | 1.37           |
| 2017/01/23 04:06 | 2.33       | 96.46      | 1.37           |
| 2017/01/23 04:21 | 2.39       | 96.46      | 1.33           |
| 2017/01/23 04:36 | 2.33       | 93.19      | 1.33           |
| 2017/01/23 04:51 | 2.33       | 93.19      | 1.33           |
| 2017/01/23 05:06 | 2.36       | 89.31      | 1.25           |
| 2017/01/23 05:21 | 2.44       | 91.18      | 1.21           |
| 2017/01/23 05:36 | 2.47       | 92.71      | 1.21           |
| 2017/01/23 05:51 | 2.50       | 94.24      | 1.21           |
| 2017/01/23 06:06 | 2.53       | 101.32     | 1.28           |
| 2017/01/23 06:21 | 2.55       | 102.99     | 1.28           |
| 2017/01/23 06:36 | 2.66       | 109.58     | 1.28           |
| 2017/01/23 06:51 | 2.93       | 125.83     | 1.28           |
| 2017/01/23 07:06 | 3.16       | 140.90     | 1.28           |
| 2017/01/23 07:21 | 3.58       | 189.17     | 1.44           |
| 2017/01/23 07:36 | 3.80       | 209.44     | 1.46           |
| 2017/01/23 07:51 | 3.89       | 227.64     | 1.54           |
| 2017/01/23 08:06 | 4.18       | 269.51     | 1.64           |
| 2017/01/23 08:21 | 4.23       | 314.86     | 1.88           |
| 2017/01/23 08:36 | 4.25       | 316.32     | 1.88           |
| 2017/01/23 08:51 | 4.43       | 335.83     | 1.88           |
| 2017/01/23 09:06 | 4.61       | 355.69     | 1.88           |
| 2017/01/23 09:21 | 4.61       | 357.43     | 1.89           |
| 2017/01/23 09:36 | 4.61       | 359.44     | 1.90           |
| 2017/01/23 09:51 | 4.43       | 314.30     | 1.76           |
| 2017/01/23 10:06 | 4.30       | 302.71     | 1.76           |
| 2017/01/23 10:21 | 4.23       | 298.19     | 1.78           |
| 2017/01/23 10:36 | 4.16       | 291.18     | 1.78           |
| 2017/01/23 10:51 | 4.12       | 284.58     | 1.76           |
| 2017/01/23 11:06 | 4.12       | 284.58     | 1.76           |
| 2017/01/23 11:21 | 4.12       | 283.82     | 1.76           |
| 2017/01/23 11:36 | 4.12       | 241.74     | 1.50           |
| 2017/01/23 11:51 | 4.12       | 241.74     | 1.50           |
| 2017/01/23 12:06 | 4.12       | 241.74     | 1.50           |
| 2017/01/23 12:21 | 3.97       | 254.79     | 1.67           |
| 2017/01/23 12:36 | 3.97       | 254.79     | 1.67           |
| 2017/01/23 12:51 | 3.97       | 273.40     | 1.79           |
| 2017/01/23 13:06 | 3.97       | 273.40     | 1.79           |
| 2017/01/23 13:21 | 3.97       | 257.57     | 1.69           |
| 2017/01/23 13:36 | 3.97       | 257.57     | 1.69           |
| 2017/01/23 13:51 | 3.90       | 266.53     | 1.79           |
| 2017/01/23 14:06 | 3.90       | 268.33     | 1.80           |
| 2017/01/23 14:21 | 3.79       | 257.36     | 1.80           |
| 2017/01/23 14:36 | 3.77       | 256.04     | 1.80           |
| 2017/01/23 14:51 | 3.73       | 251.94     | 1.80           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 15:06 | 3.66       | 245.14     | 1.80           |
| 2017/01/23 15:21 | 3.64       | 234.86     | 1.75           |
| 2017/01/23 15:36 | 3.59       | 240.28     | 1.82           |
| 2017/01/23 15:51 | 3.59       | 240.28     | 1.82           |
| 2017/01/23 16:06 | 3.59       | 240.07     | 1.81           |
| 2017/01/23 16:21 | 3.51       | 230.90     | 1.81           |
| 2017/01/23 16:36 | 3.51       | 230.90     | 1.81           |
| 2017/01/23 16:51 | 3.51       | 229.72     | 1.80           |
| 2017/01/23 17:06 | 3.51       | 219.58     | 1.72           |
| 2017/01/23 17:21 | 3.51       | 216.25     | 1.69           |
| 2017/01/23 17:36 | 3.54       | 218.75     | 1.69           |
| 2017/01/23 17:51 | 3.77       | 233.05     | 1.64           |
| 2017/01/23 18:06 | 3.75       | 237.64     | 1.69           |
| 2017/01/23 18:21 | 3.77       | 254.72     | 1.79           |
| 2017/01/23 18:36 | 3.86       | 262.92     | 1.79           |
| 2017/01/23 18:51 | 3.86       | 230.00     | 1.57           |
| 2017/01/23 19:06 | 3.91       | 210.55     | 1.41           |
| 2017/01/23 19:21 | 4.71       | 257.50     | 1.32           |
| 2017/01/23 19:36 | 4.71       | 257.50     | 1.32           |
| 2017/01/23 19:51 | 4.71       | 257.50     | 1.32           |
| 2017/01/23 20:06 | 4.16       | 274.24     | 1.68           |
| 2017/01/23 20:21 | 4.09       | 281.80     | 1.76           |
| 2017/01/23 20:36 | 4.05       | 277.64     | 1.76           |
| 2017/01/23 20:51 | 4.05       | 277.64     | 1.76           |
| 2017/01/23 21:06 | 4.05       | 300.28     | 1.91           |
| 2017/01/23 21:21 | 4.07       | 271.53     | 1.72           |
| 2017/01/23 21:36 | 4.07       | 271.53     | 1.72           |
| 2017/01/23 21:51 | 4.07       | 267.22     | 1.69           |
| 2017/01/23 22:06 | 3.96       | 253.26     | 1.67           |
| 2017/01/23 22:21 | 3.96       | 253.26     | 1.67           |
| 2017/01/23 22:36 | 3.96       | 274.10     | 1.80           |
| 2017/01/23 22:51 | 4.00       | 245.35     | 1.59           |
| 2017/01/23 23:06 | 4.00       | 238.26     | 1.54           |
| 2017/01/23 23:21 | 4.00       | 282.78     | 1.83           |
| 2017/01/23 23:36 | 3.64       | 216.80     | 1.61           |
| 2017/01/23 23:51 | 3.64       | 188.68     | 1.40           |
| 2017/01/24 00:06 | 3.46       | 194.86     | 1.56           |
| 2017/01/24 00:21 | 3.44       | 194.72     | 1.57           |
| 2017/01/24 00:36 | 3.46       | 195.83     | 1.57           |
| 2017/01/24 00:51 | 3.27       | 180.28     | 1.56           |
| 2017/01/24 01:06 | 3.11       | 167.08     | 1.56           |
| 2017/01/24 01:21 | 2.98       | 158.12     | 1.57           |
| 2017/01/24 01:36 | 2.82       | 143.96     | 1.55           |
| 2017/01/24 01:51 | 2.82       | 143.96     | 1.55           |
| 2017/01/24 02:06 | 2.73       | 137.78     | 1.55           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 02:21 | 2.68       | 127.92     | 1.48           |
| 2017/01/24 02:36 | 2.54       | 116.74     | 1.46           |
| 2017/01/24 02:51 | 2.48       | 94.17      | 1.22           |
| 2017/01/24 03:06 | 2.48       | 94.17      | 1.22           |
| 2017/01/24 03:21 | 2.48       | 97.99      | 1.27           |
| 2017/01/24 03:36 | 2.48       | 97.99      | 1.27           |
| 2017/01/24 03:51 | 2.48       | 97.99      | 1.27           |
| 2017/01/24 04:06 | 2.48       | 97.99      | 1.27           |
| 2017/01/24 04:21 | 2.44       | 95.56      | 1.27           |
| 2017/01/24 04:36 | 2.47       | 103.47     | 1.35           |
| 2017/01/24 04:51 | 2.47       | 103.47     | 1.35           |
| 2017/01/24 05:06 | 2.47       | 103.47     | 1.35           |
| 2017/01/24 05:21 | 2.55       | 108.96     | 1.36           |
| 2017/01/24 05:36 | 2.57       | 110.69     | 1.37           |
| 2017/01/24 05:51 | 2.58       | 114.10     | 1.40           |
| 2017/01/24 06:06 | 2.58       | 125.21     | 1.53           |
| 2017/01/24 06:21 | 2.73       | 124.10     | 1.40           |
| 2017/01/24 06:36 | 3.01       | 148.61     | 1.45           |
| 2017/01/24 06:51 | 3.09       | 165.35     | 1.55           |
| 2017/01/24 07:06 | 3.29       | 168.96     | 1.45           |
| 2017/01/24 07:21 | 3.65       | 196.53     | 1.45           |
| 2017/01/24 07:36 | 3.96       | 220.76     | 1.45           |
| 2017/01/24 07:51 | 4.59       | 327.43     | 1.74           |
| 2017/01/24 08:06 | 5.80       | 252.36     | 0.96           |
| 2017/01/24 08:21 | 4.59       | 327.43     | 1.74           |
| 2017/01/24 08:36 | 4.61       | 316.67     | 1.67           |
| 2017/01/24 08:51 | 4.59       | 317.92     | 1.69           |
| 2017/01/24 09:06 | 4.58       | 316.53     | 1.69           |
| 2017/01/24 09:21 | 4.37       | 296.04     | 1.69           |
| 2017/01/24 09:36 | 4.33       | 292.01     | 1.69           |
| 2017/01/24 09:51 | 4.29       | 301.53     | 1.77           |
| 2017/01/24 10:06 | 4.25       | 315.28     | 1.87           |
| 2017/01/24 10:21 | 4.12       | 302.01     | 1.87           |
| 2017/01/24 10:36 | 4.07       | 296.18     | 1.87           |
| 2017/01/24 10:51 | 4.00       | 288.89     | 1.87           |
| 2017/01/24 11:06 | 4.07       | 283.12     | 1.79           |
| 2017/01/24 11:21 | 4.00       | 274.51     | 1.78           |
| 2017/01/24 11:36 | 4.00       | 258.75     | 1.68           |
| 2017/01/24 11:51 | 3.94       | 253.61     | 1.68           |
| 2017/01/24 12:06 | 3.94       | 253.61     | 1.68           |
| 2017/01/24 12:21 | 3.84       | 246.39     | 1.69           |
| 2017/01/24 12:36 | 3.84       | 262.64     | 1.80           |
| 2017/01/24 12:51 | 3.84       | 262.64     | 1.80           |
| 2017/01/24 13:06 | 3.98       | 276.46     | 1.80           |
| 2017/01/24 13:21 | 3.98       | 283.96     | 1.85           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 13:36 | 3.98       | 269.44     | 1.75           |
| 2017/01/24 13:51 | 3.83       | 254.58     | 1.75           |
| 2017/01/24 14:06 | 3.73       | 232.92     | 1.67           |
| 2017/01/24 14:21 | 3.73       | 252.36     | 1.81           |
| 2017/01/24 14:36 | 3.73       | 232.92     | 1.67           |
| 2017/01/24 14:51 | 3.72       | 231.67     | 1.67           |
| 2017/01/24 15:06 | 3.66       | 226.67     | 1.67           |
| 2017/01/24 15:21 | 3.62       | 220.35     | 1.65           |
| 2017/01/24 15:36 | 3.62       | 214.17     | 1.60           |
| 2017/01/24 15:51 | 3.62       | 214.17     | 1.60           |
| 2017/01/24 16:06 | 3.54       | 212.01     | 1.64           |
| 2017/01/24 16:21 | 3.44       | 198.89     | 1.60           |
| 2017/01/24 16:36 | 3.39       | 198.89     | 1.64           |
| 2017/01/24 16:51 | 3.39       | 202.01     | 1.66           |
| 2017/01/24 17:06 | 3.39       | 202.01     | 1.66           |
| 2017/01/24 17:21 | 3.68       | 227.71     | 1.66           |
| 2017/01/24 17:36 | 3.72       | 233.61     | 1.68           |
| 2017/01/24 17:51 | 3.72       | 241.25     | 1.73           |
| 2017/01/24 18:06 | 3.75       | 262.50     | 1.87           |
| 2017/01/24 18:21 | 3.76       | 263.89     | 1.87           |
| 2017/01/24 18:36 | 3.80       | 256.53     | 1.79           |
| 2017/01/24 18:51 | 3.83       | 251.74     | 1.73           |
| 2017/01/24 19:06 | 3.83       | 259.24     | 1.79           |
| 2017/01/24 19:21 | 3.83       | 242.64     | 1.67           |
| 2017/01/24 19:36 | 3.83       | 242.64     | 1.67           |
| 2017/01/24 19:51 | 3.83       | 242.64     | 1.67           |
| 2017/01/24 20:06 | 3.97       | 255.49     | 1.67           |
| 2017/01/24 20:21 | 4.04       | 233.05     | 1.49           |
| 2017/01/24 20:36 | 5.18       | 280.55     | 1.25           |
| 2017/01/24 20:51 | 5.18       | 280.55     | 1.25           |
| 2017/01/24 21:06 | 5.18       | 280.55     | 1.25           |
| 2017/01/24 21:21 | 4.30       | 315.49     | 1.84           |
| 2017/01/24 21:36 | 4.21       | 305.28     | 1.84           |
| 2017/01/24 21:51 | 4.19       | 303.82     | 1.84           |
| 2017/01/24 22:06 | 4.19       | 303.82     | 1.84           |
| 2017/01/24 22:21 | 4.18       | 286.11     | 1.74           |
| 2017/01/24 22:36 | 4.08       | 276.53     | 1.74           |
| 2017/01/24 22:51 | 4.01       | 293.19     | 1.89           |
| 2017/01/24 23:06 | 3.84       | 275.76     | 1.89           |
| 2017/01/24 23:21 | 3.83       | 274.30     | 1.89           |
| 2017/01/24 23:36 | 3.79       | 270.00     | 1.89           |
| 2017/01/24 23:51 | 3.79       | 259.10     | 1.81           |
| 2017/01/25 00:06 | 3.62       | 218.05     | 1.63           |
| 2017/01/25 00:21 | 3.33       | 182.01     | 1.54           |
| 2017/01/25 00:36 | 3.08       | 162.50     | 1.54           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 00:51 | 3.07       | 154.37     | 1.47           |
| 2017/01/25 01:06 | 3.07       | 157.22     | 1.50           |
| 2017/01/25 01:21 | 2.89       | 142.29     | 1.48           |
| 2017/01/25 01:36 | 2.89       | 143.89     | 1.50           |
| 2017/01/25 01:51 | 2.82       | 137.36     | 1.48           |
| 2017/01/25 02:06 | 2.75       | 132.43     | 1.48           |
| 2017/01/25 02:21 | 2.69       | 124.79     | 1.44           |
| 2017/01/25 02:36 | 2.61       | 118.82     | 1.43           |
| 2017/01/25 02:51 | 2.55       | 115.14     | 1.43           |
| 2017/01/25 03:06 | 2.51       | 108.89     | 1.39           |
| 2017/01/25 03:21 | 2.51       | 102.43     | 1.31           |
| 2017/01/25 03:36 | 2.48       | 99.86      | 1.29           |
| 2017/01/25 03:51 | 2.46       | 93.47      | 1.23           |
| 2017/01/25 04:06 | 2.46       | 93.47      | 1.23           |
| 2017/01/25 04:21 | 2.46       | 92.08      | 1.21           |
| 2017/01/25 04:36 | 2.43       | 90.56      | 1.21           |
| 2017/01/25 04:51 | 2.43       | 88.82      | 1.19           |
| 2017/01/25 05:06 | 2.44       | 89.58      | 1.19           |
| 2017/01/25 05:21 | 2.44       | 89.58      | 1.19           |
| 2017/01/25 05:36 | 2.47       | 91.32      | 1.19           |
| 2017/01/25 05:51 | 2.50       | 92.85      | 1.19           |
| 2017/01/25 06:06 | 2.50       | 92.85      | 1.19           |
| 2017/01/25 06:21 | 2.64       | 100.49     | 1.19           |
| 2017/01/25 06:36 | 2.71       | 104.37     | 1.19           |
| 2017/01/25 06:51 | 3.04       | 132.36     | 1.28           |
| 2017/01/25 07:06 | 3.08       | 140.35     | 1.33           |
| 2017/01/25 07:21 | 3.71       | 200.28     | 1.45           |
| 2017/01/25 07:36 | 3.83       | 232.71     | 1.60           |
| 2017/01/25 07:51 | 4.08       | 254.93     | 1.60           |
| 2017/01/25 08:06 | 4.34       | 294.44     | 1.69           |
| 2017/01/25 08:21 | 4.66       | 325.97     | 1.69           |
| 2017/01/25 08:36 | 4.66       | 332.15     | 1.72           |
| 2017/01/25 08:51 | 4.66       | 323.05     | 1.68           |
| 2017/01/25 09:06 | 4.50       | 315.28     | 1.72           |
| 2017/01/25 09:21 | 4.43       | 308.33     | 1.72           |
| 2017/01/25 09:36 | 4.41       | 306.94     | 1.72           |
| 2017/01/25 09:51 | 4.26       | 311.67     | 1.84           |
| 2017/01/25 10:06 | 4.19       | 304.58     | 1.84           |
| 2017/01/25 10:21 | 4.11       | 295.90     | 1.84           |
| 2017/01/25 10:36 | 4.11       | 295.90     | 1.84           |
| 2017/01/25 10:51 | 4.11       | 295.90     | 1.84           |
| 2017/01/25 11:06 | 4.11       | 308.68     | 1.92           |
| 2017/01/25 11:21 | 4.11       | 308.68     | 1.92           |
| 2017/01/25 11:36 | 3.97       | 272.71     | 1.79           |
| 2017/01/25 11:51 | 3.97       | 272.01     | 1.78           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 12:06 | 3.97       | 256.87     | 1.68           |
| 2017/01/25 12:21 | 4.51       | 287.50     | 1.57           |
| 2017/01/25 12:36 | 5.27       | 196.25     | 0.85           |
| 2017/01/25 12:51 | 5.27       | 196.25     | 0.85           |
| 2017/01/25 13:06 | 5.27       | 196.25     | 0.85           |
| 2017/01/25 13:21 | 3.82       | 228.61     | 1.58           |
| 2017/01/25 13:36 | 3.80       | 246.94     | 1.72           |
| 2017/01/25 13:51 | 3.79       | 245.62     | 1.72           |
| 2017/01/25 14:06 | 3.79       | 245.62     | 1.72           |
| 2017/01/25 14:21 | 3.79       | 245.62     | 1.72           |
| 2017/01/25 14:36 | 3.79       | 240.83     | 1.69           |
| 2017/01/25 14:51 | 3.75       | 237.01     | 1.69           |
| 2017/01/25 15:06 | 3.75       | 237.01     | 1.69           |
| 2017/01/25 15:21 | 3.69       | 231.94     | 1.69           |
| 2017/01/25 15:36 | 3.69       | 225.42     | 1.64           |
| 2017/01/25 15:51 | 3.59       | 221.87     | 1.68           |
| 2017/01/25 16:06 | 3.52       | 215.69     | 1.68           |
| 2017/01/25 16:21 | 3.47       | 210.83     | 1.68           |
| 2017/01/25 16:36 | 3.47       | 182.43     | 1.45           |
| 2017/01/25 16:51 | 3.47       | 193.89     | 1.54           |
| 2017/01/25 17:06 | 3.72       | 214.51     | 1.54           |
| 2017/01/25 17:21 | 3.73       | 215.69     | 1.54           |
| 2017/01/25 17:36 | 3.76       | 217.99     | 1.54           |
| 2017/01/25 17:51 | 3.79       | 220.35     | 1.54           |
| 2017/01/25 18:06 | 3.86       | 230.90     | 1.57           |
| 2017/01/25 18:21 | 3.97       | 239.65     | 1.57           |
| 2017/01/25 18:36 | 4.04       | 245.69     | 1.57           |
| 2017/01/25 18:51 | 3.97       | 259.44     | 1.70           |
| 2017/01/25 19:06 | 3.97       | 260.62     | 1.71           |
| 2017/01/25 19:21 | 4.04       | 274.37     | 1.75           |
| 2017/01/25 19:36 | 4.04       | 274.37     | 1.75           |
| 2017/01/25 19:51 | 4.04       | 274.37     | 1.75           |
| 2017/01/25 20:06 | 4.04       | 267.22     | 1.71           |
| 2017/01/25 20:21 | 4.07       | 253.47     | 1.60           |
| 2017/01/25 20:36 | 4.05       | 252.22     | 1.60           |
| 2017/01/25 20:51 | 4.08       | 280.62     | 1.77           |
| 2017/01/25 21:06 | 4.08       | 199.86     | 1.26           |
| 2017/01/25 21:21 | 4.07       | 283.61     | 1.79           |
| 2017/01/25 21:36 | 4.07       | 283.61     | 1.79           |
| 2017/01/25 21:51 | 4.07       | 285.07     | 1.80           |
| 2017/01/25 22:06 | 4.07       | 287.50     | 1.82           |
| 2017/01/25 22:21 | 4.07       | 290.83     | 1.84           |
| 2017/01/25 22:36 | 4.07       | 287.50     | 1.82           |
| 2017/01/25 22:51 | 4.05       | 286.04     | 1.82           |
| 2017/01/25 23:06 | 3.87       | 270.97     | 1.84           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 23:21 | 3.87       | 252.57     | 1.71           |
| 2017/01/25 23:36 | 3.83       | 248.61     | 1.71           |
| 2017/01/25 23:51 | 3.79       | 245.83     | 1.72           |
| 2017/01/26 00:06 | 3.57       | 225.21     | 1.72           |
| 2017/01/26 00:21 | 3.46       | 206.87     | 1.66           |
| 2017/01/26 00:36 | 3.34       | 203.89     | 1.71           |
| 2017/01/26 00:51 | 3.22       | 186.67     | 1.66           |
| 2017/01/26 01:06 | 3.18       | 180.83     | 1.63           |
| 2017/01/26 01:21 | 3.01       | 167.15     | 1.63           |
| 2017/01/26 01:36 | 2.91       | 148.47     | 1.52           |
| 2017/01/26 01:51 | 2.90       | 139.17     | 1.44           |
| 2017/01/26 02:06 | 2.84       | 135.28     | 1.44           |
| 2017/01/26 02:21 | 2.83       | 134.31     | 1.44           |
| 2017/01/26 02:36 | 2.73       | 122.08     | 1.37           |
| 2017/01/26 02:51 | 2.62       | 114.65     | 1.37           |
| 2017/01/26 03:06 | 2.55       | 103.82     | 1.29           |
| 2017/01/26 03:21 | 2.54       | 102.99     | 1.29           |
| 2017/01/26 03:36 | 2.53       | 101.46     | 1.28           |
| 2017/01/26 03:51 | 2.50       | 92.01      | 1.18           |
| 2017/01/26 04:06 | 2.46       | 89.72      | 1.18           |
| 2017/01/26 04:21 | 2.46       | 98.33      | 1.30           |
| 2017/01/26 04:36 | 2.46       | 89.72      | 1.18           |
| 2017/01/26 04:51 | 2.46       | 89.72      | 1.18           |
| 2017/01/26 05:06 | 2.46       | 97.50      | 1.28           |
| 2017/01/26 05:21 | 2.57       | 97.22      | 1.20           |
| 2017/01/26 05:36 | 2.83       | 112.22     | 1.20           |
| 2017/01/26 05:51 | 2.89       | 123.54     | 1.28           |
| 2017/01/26 06:06 | 2.89       | 126.04     | 1.31           |
| 2017/01/26 06:21 | 2.89       | 126.04     | 1.31           |
| 2017/01/26 06:36 | 3.08       | 167.64     | 1.59           |
| 2017/01/26 06:51 | 3.51       | 167.64     | 1.31           |
| 2017/01/26 07:06 | 3.90       | 241.80     | 1.62           |
| 2017/01/26 07:21 | 3.98       | 249.30     | 1.62           |
| 2017/01/26 07:36 | 5.48       | 393.96     | 1.62           |
| 2017/01/26 07:51 | 4.54       | 300.83     | 1.62           |
| 2017/01/26 08:06 | 4.52       | 326.80     | 1.77           |
| 2017/01/26 08:21 | 4.52       | 328.47     | 1.78           |
| 2017/01/26 08:36 | 4.52       | 328.47     | 1.78           |
| 2017/01/26 08:51 | 4.52       | 328.47     | 1.78           |
| 2017/01/26 09:06 | 4.51       | 325.35     | 1.77           |
| 2017/01/26 09:21 | 4.44       | 322.85     | 1.80           |
| 2017/01/26 09:36 | 4.26       | 270.55     | 1.60           |
| 2017/01/26 09:51 | 4.26       | 270.55     | 1.60           |
| 2017/01/26 10:06 | 4.26       | 288.40     | 1.70           |
| 2017/01/26 10:21 | 4.27       | 300.90     | 1.77           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 10:36 | 4.27       | 289.72     | 1.70           |
| 2017/01/26 10:51 | 4.27       | 300.90     | 1.77           |
| 2017/01/26 11:06 | 4.27       | 289.72     | 1.70           |
| 2017/01/26 11:21 | 4.14       | 266.39     | 1.64           |
| 2017/01/26 11:36 | 4.12       | 265.14     | 1.64           |
| 2017/01/26 11:51 | 3.97       | 248.96     | 1.63           |
| 2017/01/26 12:06 | 4.01       | 252.71     | 1.63           |
| 2017/01/26 12:21 | 3.97       | 273.40     | 1.79           |
| 2017/01/26 12:36 | 3.97       | 273.40     | 1.79           |
| 2017/01/26 12:51 | 3.97       | 248.96     | 1.63           |
| 2017/01/26 13:06 | 4.01       | 229.51     | 1.48           |
| 2017/01/26 13:21 | 3.97       | 226.11     | 1.48           |
| 2017/01/26 13:36 | 3.96       | 224.93     | 1.48           |
| 2017/01/26 13:51 | 3.84       | 255.69     | 1.75           |
| 2017/01/26 14:06 | 3.84       | 257.50     | 1.77           |
| 2017/01/26 14:21 | 3.71       | 245.62     | 1.78           |
| 2017/01/26 14:36 | 3.64       | 239.03     | 1.78           |
| 2017/01/26 14:51 | 3.61       | 236.32     | 1.78           |
| 2017/01/26 15:06 | 3.59       | 231.39     | 1.75           |
| 2017/01/26 15:21 | 3.59       | 223.54     | 1.69           |
| 2017/01/26 15:36 | 3.55       | 208.26     | 1.60           |
| 2017/01/26 15:51 | 3.59       | 201.32     | 1.52           |
| 2017/01/26 16:06 | 3.61       | 208.75     | 1.57           |
| 2017/01/26 16:21 | 3.61       | 212.99     | 1.60           |
| 2017/01/26 16:36 | 3.61       | 212.99     | 1.60           |
| 2017/01/26 16:51 | 3.61       | 213.61     | 1.61           |
| 2017/01/26 17:06 | 3.61       | 213.61     | 1.61           |
| 2017/01/26 17:21 | 3.61       | 213.61     | 1.61           |
| 2017/01/26 17:36 | 3.64       | 215.97     | 1.61           |
| 2017/01/26 17:51 | 3.77       | 228.05     | 1.61           |
| 2017/01/26 18:06 | 3.80       | 234.86     | 1.64           |
| 2017/01/26 18:21 | 3.80       | 249.30     | 1.74           |
| 2017/01/26 18:36 | 3.80       | 249.30     | 1.74           |
| 2017/01/26 18:51 | 3.84       | 253.26     | 1.74           |
| 2017/01/26 19:06 | 4.07       | 280.97     | 1.78           |
| 2017/01/26 19:21 | 4.07       | 295.69     | 1.87           |
| 2017/01/26 19:36 | 4.08       | 297.15     | 1.87           |
| 2017/01/26 19:51 | 4.08       | 297.15     | 1.87           |
| 2017/01/26 20:06 | 4.29       | 319.24     | 1.87           |
| 2017/01/26 20:21 | 5.19       | 290.83     | 1.30           |
| 2017/01/26 20:36 | 5.39       | 306.46     | 1.30           |
| 2017/01/26 20:51 | 5.39       | 306.46     | 1.30           |
| 2017/01/26 21:06 | 5.39       | 399.23     | 1.69           |
| 2017/01/26 21:21 | 4.18       | 284.58     | 1.73           |
| 2017/01/26 21:36 | 4.18       | 285.55     | 1.74           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 21:51 | 4.16       | 295.69     | 1.81           |
| 2017/01/26 22:06 | 4.15       | 294.30     | 1.81           |
| 2017/01/26 22:21 | 4.04       | 282.99     | 1.81           |
| 2017/01/26 22:36 | 4.04       | 263.40     | 1.68           |
| 2017/01/26 22:51 | 4.04       | 263.40     | 1.68           |
| 2017/01/26 23:06 | 4.04       | 263.40     | 1.68           |
| 2017/01/26 23:21 | 3.97       | 280.42     | 1.84           |
| 2017/01/26 23:36 | 3.91       | 274.79     | 1.84           |
| 2017/01/26 23:51 | 3.82       | 264.93     | 1.84           |
| 2017/01/27 00:06 | 3.66       | 245.55     | 1.81           |
| 2017/01/27 00:21 | 3.43       | 213.19     | 1.73           |
| 2017/01/27 00:36 | 3.27       | 199.51     | 1.73           |
| 2017/01/27 00:51 | 3.22       | 189.58     | 1.68           |
| 2017/01/27 01:06 | 3.11       | 176.74     | 1.65           |
| 2017/01/27 01:21 | 3.07       | 165.42     | 1.57           |
| 2017/01/27 01:36 | 2.98       | 158.75     | 1.57           |
| 2017/01/27 01:51 | 2.96       | 155.69     | 1.56           |
| 2017/01/27 02:06 | 2.94       | 154.31     | 1.56           |
| 2017/01/27 02:21 | 2.93       | 138.75     | 1.41           |
| 2017/01/27 02:36 | 2.73       | 123.06     | 1.39           |
| 2017/01/27 02:51 | 2.69       | 120.28     | 1.39           |
| 2017/01/27 03:06 | 2.69       | 122.71     | 1.41           |
| 2017/01/27 03:21 | 2.54       | 109.24     | 1.37           |
| 2017/01/27 03:36 | 2.50       | 94.72      | 1.22           |
| 2017/01/27 03:51 | 2.50       | 94.72      | 1.22           |
| 2017/01/27 04:06 | 2.46       | 91.60      | 1.21           |
| 2017/01/27 04:21 | 2.46       | 91.60      | 1.21           |
| 2017/01/27 04:36 | 2.46       | 91.60      | 1.21           |
| 2017/01/27 04:51 | 2.40       | 88.61      | 1.21           |
| 2017/01/27 05:06 | 2.40       | 87.43      | 1.19           |
| 2017/01/27 05:21 | 2.40       | 99.03      | 1.35           |
| 2017/01/27 05:36 | 2.40       | 95.28      | 1.30           |
| 2017/01/27 05:51 | 2.41       | 96.11      | 1.30           |
| 2017/01/27 06:06 | 2.59       | 106.81     | 1.30           |
| 2017/01/27 06:21 | 2.75       | 120.69     | 1.35           |
| 2017/01/27 06:36 | 2.98       | 131.04     | 1.30           |
| 2017/01/27 06:51 | 2.98       | 124.10     | 1.23           |
| 2017/01/27 07:06 | 4.05       | 215.90     | 1.37           |
| 2017/01/27 07:21 | 4.05       | 215.90     | 1.37           |
| 2017/01/27 07:36 | 4.15       | 187.92     | 1.15           |
| 2017/01/27 07:51 | 4.43       | 269.03     | 1.50           |
| 2017/01/27 08:06 | 4.41       | 282.99     | 1.59           |
| 2017/01/27 08:21 | 4.43       | 284.30     | 1.59           |
| 2017/01/27 08:36 | 4.55       | 308.12     | 1.66           |
| 2017/01/27 08:51 | 4.55       | 308.12     | 1.66           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 09:06 | 4.55       | 308.12     | 1.66           |
| 2017/01/27 09:21 | 4.79       | 332.50     | 1.66           |
| 2017/01/27 09:36 | 4.55       | 316.60     | 1.70           |
| 2017/01/27 09:51 | 4.47       | 308.33     | 1.70           |
| 2017/01/27 10:06 | 4.36       | 297.36     | 1.70           |
| 2017/01/27 10:21 | 4.34       | 289.37     | 1.66           |
| 2017/01/27 10:36 | 4.19       | 274.86     | 1.66           |
| 2017/01/27 10:51 | 4.19       | 274.86     | 1.66           |
| 2017/01/27 11:06 | 4.19       | 274.86     | 1.66           |
| 2017/01/27 11:21 | 4.16       | 296.46     | 1.81           |
| 2017/01/27 11:36 | 4.16       | 296.46     | 1.81           |
| 2017/01/27 11:51 | 4.19       | 290.21     | 1.76           |
| 2017/01/27 12:06 | 4.16       | 287.43     | 1.76           |
| 2017/01/27 12:21 | 4.08       | 287.92     | 1.81           |
| 2017/01/27 12:36 | 4.16       | 287.43     | 1.76           |
| 2017/01/27 12:51 | 4.21       | 291.60     | 1.76           |
| 2017/01/27 13:06 | 4.05       | 285.14     | 1.81           |
| 2017/01/27 13:21 | 3.96       | 253.47     | 1.67           |
| 2017/01/27 13:36 | 3.82       | 240.69     | 1.67           |
| 2017/01/27 13:51 | 3.82       | 252.15     | 1.75           |
| 2017/01/27 14:06 | 3.82       | 252.15     | 1.75           |
| 2017/01/27 14:21 | 3.84       | 254.86     | 1.75           |
| 2017/01/27 14:36 | 3.84       | 257.29     | 1.76           |
| 2017/01/27 14:51 | 3.87       | 277.29     | 1.88           |
| 2017/01/27 15:06 | 3.87       | 275.28     | 1.87           |
| 2017/01/27 15:21 | 3.87       | 275.28     | 1.87           |
| 2017/01/27 15:36 | 3.87       | 275.28     | 1.87           |
| 2017/01/27 15:51 | 3.87       | 275.28     | 1.87           |
| 2017/01/27 16:06 | 3.72       | 220.00     | 1.58           |
| 2017/01/27 16:21 | 3.72       | 220.00     | 1.58           |
| 2017/01/27 16:36 | 3.72       | 220.00     | 1.58           |
| 2017/01/27 16:51 | 3.80       | 227.22     | 1.58           |
| 2017/01/27 17:06 | 3.80       | 237.71     | 1.66           |
| 2017/01/27 17:21 | 3.83       | 244.86     | 1.69           |
| 2017/01/27 17:36 | 3.90       | 264.51     | 1.78           |
| 2017/01/27 17:51 | 3.90       | 264.51     | 1.78           |
| 2017/01/27 18:06 | 3.93       | 267.22     | 1.78           |
| 2017/01/27 18:21 | 3.93       | 266.04     | 1.77           |
| 2017/01/27 18:36 | 4.12       | 272.01     | 1.69           |
| 2017/01/27 18:51 | 4.21       | 279.93     | 1.69           |
| 2017/01/27 19:06 | 4.21       | 279.93     | 1.69           |
| 2017/01/27 19:21 | 4.21       | 287.29     | 1.73           |
| 2017/01/27 19:36 | 4.21       | 287.29     | 1.73           |
| 2017/01/27 19:51 | 4.21       | 295.14     | 1.78           |
| 2017/01/27 20:06 | 4.18       | 284.58     | 1.73           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 20:21 | 4.16       | 290.97     | 1.78           |
| 2017/01/27 20:36 | 4.16       | 290.97     | 1.78           |
| 2017/01/27 20:51 | 4.11       | 294.17     | 1.83           |
| 2017/01/27 21:06 | 4.16       | 299.93     | 1.83           |
| 2017/01/27 21:21 | 4.16       | 300.97     | 1.84           |
| 2017/01/27 21:36 | 4.12       | 295.62     | 1.83           |
| 2017/01/27 21:51 | 4.07       | 283.12     | 1.79           |
| 2017/01/27 22:06 | 4.07       | 283.12     | 1.79           |
| 2017/01/27 22:21 | 3.91       | 253.05     | 1.69           |
| 2017/01/27 22:36 | 3.91       | 253.05     | 1.69           |
| 2017/01/27 22:51 | 3.91       | 280.90     | 1.88           |
| 2017/01/27 23:06 | 3.91       | 284.37     | 1.90           |
| 2017/01/27 23:21 | 3.90       | 279.51     | 1.88           |
| 2017/01/27 23:36 | 3.90       | 279.51     | 1.88           |
| 2017/01/27 23:51 | 3.83       | 263.26     | 1.81           |
| 2017/01/28 00:06 | 3.82       | 261.87     | 1.81           |
| 2017/01/28 00:21 | 3.76       | 256.18     | 1.81           |
| 2017/01/28 00:36 | 3.76       | 256.18     | 1.81           |
| 2017/01/28 00:51 | 3.72       | 216.60     | 1.56           |
| 2017/01/28 01:06 | 3.72       | 216.18     | 1.55           |
| 2017/01/28 01:21 | 3.34       | 185.28     | 1.55           |
| 2017/01/28 01:36 | 3.25       | 177.50     | 1.55           |
| 2017/01/28 01:51 | 3.25       | 172.29     | 1.51           |
| 2017/01/28 02:06 | 3.05       | 148.54     | 1.42           |
| 2017/01/28 02:21 | 3.00       | 156.87     | 1.54           |
| 2017/01/28 02:36 | 2.90       | 137.85     | 1.42           |
| 2017/01/28 02:51 | 2.89       | 135.00     | 1.40           |
| 2017/01/28 03:06 | 2.86       | 133.06     | 1.40           |
| 2017/01/28 03:21 | 2.82       | 128.40     | 1.38           |
| 2017/01/28 03:36 | 2.69       | 116.04     | 1.34           |
| 2017/01/28 03:51 | 2.62       | 111.67     | 1.34           |
| 2017/01/28 04:06 | 2.62       | 111.67     | 1.34           |
| 2017/01/28 04:21 | 2.62       | 114.10     | 1.37           |
| 2017/01/28 04:36 | 2.61       | 113.26     | 1.37           |
| 2017/01/28 04:51 | 2.57       | 110.62     | 1.37           |
| 2017/01/28 05:06 | 2.48       | 100.69     | 1.30           |
| 2017/01/28 05:21 | 2.48       | 100.69     | 1.30           |
| 2017/01/28 05:36 | 2.48       | 99.03      | 1.28           |
| 2017/01/28 05:51 | 2.47       | 98.19      | 1.28           |
| 2017/01/28 06:06 | 2.47       | 98.19      | 1.28           |
| 2017/01/28 06:21 | 2.48       | 99.03      | 1.28           |
| 2017/01/28 06:36 | 2.48       | 99.03      | 1.28           |
| 2017/01/28 06:51 | 2.54       | 103.12     | 1.29           |
| 2017/01/28 07:06 | 2.69       | 108.75     | 1.25           |
| 2017/01/28 07:21 | 3.01       | 128.12     | 1.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 07:36 | 3.43       | 137.43     | 1.11           |
| 2017/01/28 07:51 | 4.91       | 171.67     | 0.83           |
| 2017/01/28 08:06 | 4.91       | 171.67     | 0.83           |
| 2017/01/28 08:21 | 4.91       | 171.67     | 0.83           |
| 2017/01/28 08:36 | 3.80       | 196.53     | 1.37           |
| 2017/01/28 08:51 | 3.80       | 234.44     | 1.63           |
| 2017/01/28 09:06 | 3.80       | 234.44     | 1.63           |
| 2017/01/28 09:21 | 3.91       | 244.37     | 1.63           |
| 2017/01/28 09:36 | 4.26       | 313.47     | 1.85           |
| 2017/01/28 09:51 | 4.27       | 314.93     | 1.85           |
| 2017/01/28 10:06 | 4.72       | 318.40     | 1.63           |
| 2017/01/28 10:21 | 4.72       | 318.40     | 1.63           |
| 2017/01/28 10:36 | 4.79       | 325.14     | 1.63           |
| 2017/01/28 10:51 | 4.79       | 325.14     | 1.63           |
| 2017/01/28 11:06 | 4.73       | 340.14     | 1.73           |
| 2017/01/28 11:21 | 4.79       | 345.90     | 1.73           |
| 2017/01/28 11:36 | 4.73       | 340.14     | 1.73           |
| 2017/01/28 11:51 | 4.73       | 340.14     | 1.73           |
| 2017/01/28 12:06 | 4.64       | 301.67     | 1.58           |
| 2017/01/28 12:21 | 4.57       | 295.21     | 1.58           |
| 2017/01/28 12:36 | 4.57       | 294.58     | 1.58           |
| 2017/01/28 12:51 | 4.57       | 294.58     | 1.58           |
| 2017/01/28 13:06 | 4.57       | 278.61     | 1.49           |
| 2017/01/28 13:21 | 4.57       | 278.61     | 1.49           |
| 2017/01/28 13:36 | 4.55       | 277.43     | 1.49           |
| 2017/01/28 13:51 | 4.46       | 303.96     | 1.68           |
| 2017/01/28 14:06 | 4.46       | 325.69     | 1.81           |
| 2017/01/28 14:21 | 4.37       | 316.94     | 1.81           |
| 2017/01/28 14:36 | 4.37       | 316.67     | 1.80           |
| 2017/01/28 14:51 | 4.39       | 306.80     | 1.74           |
| 2017/01/28 15:06 | 4.39       | 318.12     | 1.80           |
| 2017/01/28 15:21 | 4.39       | 306.80     | 1.74           |
| 2017/01/28 15:36 | 4.39       | 300.90     | 1.71           |
| 2017/01/28 15:51 | 4.19       | 281.87     | 1.71           |
| 2017/01/28 16:06 | 4.19       | 298.54     | 1.81           |
| 2017/01/28 16:21 | 4.18       | 307.15     | 1.87           |
| 2017/01/28 16:36 | 4.16       | 305.69     | 1.87           |
| 2017/01/28 16:51 | 4.16       | 305.69     | 1.87           |
| 2017/01/28 17:06 | 4.12       | 299.30     | 1.86           |
| 2017/01/28 17:21 | 4.12       | 235.35     | 1.46           |
| 2017/01/28 17:36 | 4.12       | 226.74     | 1.41           |
| 2017/01/28 17:51 | 4.40       | 249.03     | 1.41           |
| 2017/01/28 18:06 | 5.50       | 306.60     | 1.26           |
| 2017/01/28 18:21 | 5.50       | 306.60     | 1.26           |
| 2017/01/28 18:36 | 5.50       | 306.60     | 1.26           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 18:51 | 4.41       | 286.53     | 1.61           |
| 2017/01/28 19:06 | 4.36       | 281.39     | 1.61           |
| 2017/01/28 19:21 | 4.34       | 307.15     | 1.77           |
| 2017/01/28 19:36 | 4.33       | 307.57     | 1.78           |
| 2017/01/28 19:51 | 4.19       | 295.76     | 1.79           |
| 2017/01/28 20:06 | 4.19       | 295.76     | 1.79           |
| 2017/01/28 20:21 | 4.19       | 295.76     | 1.79           |
| 2017/01/28 20:36 | 4.18       | 296.60     | 1.80           |
| 2017/01/28 20:51 | 4.19       | 298.05     | 1.80           |
| 2017/01/28 21:06 | 4.21       | 267.78     | 1.61           |
| 2017/01/28 21:21 | 4.55       | 240.83     | 1.29           |
| 2017/01/28 21:36 | 4.55       | 240.83     | 1.29           |
| 2017/01/28 21:51 | 4.55       | 240.83     | 1.29           |
| 2017/01/28 22:06 | 4.44       | 248.61     | 1.38           |
| 2017/01/28 22:21 | 4.02       | 265.90     | 1.71           |
| 2017/01/28 22:36 | 3.84       | 248.82     | 1.71           |
| 2017/01/28 22:51 | 3.83       | 247.50     | 1.71           |
| 2017/01/28 23:06 | 3.82       | 266.74     | 1.85           |
| 2017/01/28 23:21 | 3.82       | 232.15     | 1.61           |
| 2017/01/28 23:36 | 3.82       | 232.15     | 1.61           |
| 2017/01/28 23:51 | 3.82       | 218.26     | 1.51           |
| 2017/01/29 00:06 | 3.82       | 218.26     | 1.51           |
| 2017/01/29 00:21 | 3.79       | 215.97     | 1.51           |
| 2017/01/29 00:36 | 3.57       | 162.50     | 1.24           |
| 2017/01/29 00:51 | 3.41       | 152.50     | 1.24           |
| 2017/01/29 01:06 | 3.37       | 196.94     | 1.63           |
| 2017/01/29 01:21 | 3.30       | 206.94     | 1.77           |
| 2017/01/29 01:36 | 3.25       | 186.39     | 1.63           |
| 2017/01/29 01:51 | 3.21       | 182.92     | 1.63           |
| 2017/01/29 02:06 | 3.19       | 193.33     | 1.74           |
| 2017/01/29 02:21 | 3.16       | 176.11     | 1.60           |
| 2017/01/29 02:36 | 3.08       | 168.96     | 1.60           |
| 2017/01/29 02:51 | 3.08       | 168.96     | 1.60           |
| 2017/01/29 03:06 | 2.94       | 122.50     | 1.24           |
| 2017/01/29 03:21 | 2.78       | 106.94     | 1.18           |
| 2017/01/29 03:36 | 2.68       | 101.53     | 1.18           |
| 2017/01/29 03:51 | 2.59       | 96.94      | 1.18           |
| 2017/01/29 04:06 | 2.58       | 96.18      | 1.18           |
| 2017/01/29 04:21 | 2.53       | 99.03      | 1.25           |
| 2017/01/29 04:36 | 2.46       | 95.07      | 1.25           |
| 2017/01/29 04:51 | 2.41       | 92.64      | 1.25           |
| 2017/01/29 05:06 | 2.41       | 92.64      | 1.25           |
| 2017/01/29 05:21 | 2.40       | 91.81      | 1.25           |
| 2017/01/29 05:36 | 2.39       | 90.69      | 1.25           |
| 2017/01/29 05:51 | 2.37       | 89.93      | 1.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 06:06 | 2.37       | 88.40      | 1.23           |
| 2017/01/29 06:21 | 2.37       | 84.65      | 1.17           |
| 2017/01/29 06:36 | 2.40       | 89.93      | 1.23           |
| 2017/01/29 06:51 | 2.47       | 93.75      | 1.23           |
| 2017/01/29 07:06 | 2.55       | 107.15     | 1.33           |
| 2017/01/29 07:21 | 2.57       | 107.99     | 1.33           |
| 2017/01/29 07:36 | 2.72       | 118.19     | 1.34           |
| 2017/01/29 07:51 | 2.94       | 132.57     | 1.34           |
| 2017/01/29 08:06 | 3.11       | 158.26     | 1.48           |
| 2017/01/29 08:21 | 3.27       | 170.76     | 1.48           |
| 2017/01/29 08:36 | 3.41       | 197.50     | 1.61           |
| 2017/01/29 08:51 | 3.73       | 227.15     | 1.63           |
| 2017/01/29 09:06 | 4.08       | 258.33     | 1.63           |
| 2017/01/29 09:21 | 4.30       | 279.37     | 1.63           |
| 2017/01/29 09:36 | 4.30       | 279.37     | 1.63           |
| 2017/01/29 09:51 | 4.33       | 281.94     | 1.63           |
| 2017/01/29 10:06 | 4.37       | 292.57     | 1.67           |
| 2017/01/29 10:21 | 4.46       | 300.62     | 1.67           |
| 2017/01/29 10:36 | 4.47       | 301.94     | 1.67           |
| 2017/01/29 10:51 | 4.57       | 345.69     | 1.85           |
| 2017/01/29 11:06 | 4.68       | 343.89     | 1.78           |
| 2017/01/29 11:21 | 4.68       | 357.78     | 1.85           |
| 2017/01/29 11:36 | 4.68       | 343.89     | 1.78           |
| 2017/01/29 11:51 | 4.66       | 342.43     | 1.78           |
| 2017/01/29 12:06 | 4.65       | 331.04     | 1.73           |
| 2017/01/29 12:21 | 4.62       | 328.19     | 1.73           |
| 2017/01/29 12:36 | 4.62       | 310.49     | 1.63           |
| 2017/01/29 12:51 | 4.59       | 307.85     | 1.63           |
| 2017/01/29 13:06 | 4.59       | 325.42     | 1.73           |
| 2017/01/29 13:21 | 4.52       | 301.18     | 1.63           |
| 2017/01/29 13:36 | 4.52       | 301.18     | 1.63           |
| 2017/01/29 13:51 | 4.54       | 304.79     | 1.64           |
| 2017/01/29 14:06 | 4.54       | 304.79     | 1.64           |
| 2017/01/29 14:21 | 4.54       | 304.79     | 1.64           |
| 2017/01/29 14:36 | 4.54       | 320.35     | 1.73           |
| 2017/01/29 14:51 | 4.36       | 302.15     | 1.73           |
| 2017/01/29 15:06 | 4.34       | 280.07     | 1.61           |
| 2017/01/29 15:21 | 4.34       | 280.07     | 1.61           |
| 2017/01/29 15:36 | 4.29       | 274.93     | 1.61           |
| 2017/01/29 15:51 | 4.30       | 276.25     | 1.61           |
| 2017/01/29 16:06 | 4.32       | 280.14     | 1.63           |
| 2017/01/29 16:21 | 4.32       | 280.14     | 1.63           |
| 2017/01/29 16:36 | 4.30       | 283.82     | 1.65           |
| 2017/01/29 16:51 | 4.32       | 280.14     | 1.63           |
| 2017/01/29 17:06 | 4.32       | 285.14     | 1.65           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 17:21 | 4.29       | 282.50     | 1.65           |
| 2017/01/29 17:36 | 4.22       | 285.62     | 1.71           |
| 2017/01/29 17:51 | 4.29       | 292.43     | 1.71           |
| 2017/01/29 18:06 | 4.29       | 292.43     | 1.71           |
| 2017/01/29 18:21 | 4.71       | 334.03     | 1.71           |
| 2017/01/29 18:36 | 4.71       | 334.03     | 1.71           |
| 2017/01/29 18:51 | 4.71       | 334.03     | 1.71           |
| 2017/01/29 19:06 | 4.68       | 331.25     | 1.71           |
| 2017/01/29 19:21 | 4.52       | 329.58     | 1.79           |
| 2017/01/29 19:36 | 4.39       | 302.01     | 1.71           |
| 2017/01/29 19:51 | 4.33       | 309.44     | 1.79           |
| 2017/01/29 20:06 | 4.21       | 300.21     | 1.81           |
| 2017/01/29 20:21 | 4.19       | 298.82     | 1.81           |
| 2017/01/29 20:36 | 4.19       | 292.99     | 1.77           |
| 2017/01/29 20:51 | 4.19       | 298.82     | 1.81           |
| 2017/01/29 21:06 | 4.19       | 292.99     | 1.77           |
| 2017/01/29 21:21 | 4.19       | 288.19     | 1.74           |
| 2017/01/29 21:36 | 4.25       | 290.90     | 1.73           |
| 2017/01/29 21:51 | 4.27       | 293.61     | 1.73           |
| 2017/01/29 22:06 | 4.27       | 293.61     | 1.73           |
| 2017/01/29 22:21 | 5.08       | 251.46     | 1.16           |
| 2017/01/29 22:36 | 5.08       | 251.46     | 1.16           |
| 2017/01/29 22:51 | 3.96       | 257.43     | 1.69           |
| 2017/01/29 23:06 | 3.79       | 253.26     | 1.77           |
| 2017/01/29 23:21 | 3.79       | 241.87     | 1.69           |
| 2017/01/29 23:36 | 3.69       | 238.19     | 1.73           |
| 2017/01/29 23:51 | 3.69       | 238.19     | 1.73           |
| 2017/01/30 00:06 | 3.41       | 211.53     | 1.72           |
| 2017/01/30 00:21 | 3.37       | 180.90     | 1.50           |
| 2017/01/30 00:36 | 3.37       | 181.32     | 1.50           |
| 2017/01/30 00:51 | 2.94       | 148.26     | 1.50           |
| 2017/01/30 01:06 | 2.86       | 142.22     | 1.50           |
| 2017/01/30 01:21 | 2.79       | 137.43     | 1.50           |
| 2017/01/30 01:36 | 2.72       | 132.50     | 1.50           |
| 2017/01/30 01:51 | 2.71       | 131.46     | 1.50           |
| 2017/01/30 02:06 | 2.53       | 118.82     | 1.50           |
| 2017/01/30 02:21 | 2.43       | 103.54     | 1.39           |
| 2017/01/30 02:36 | 2.41       | 101.67     | 1.37           |
| 2017/01/30 02:51 | 2.41       | 91.04      | 1.23           |
| 2017/01/30 03:06 | 2.37       | 88.75      | 1.23           |
| 2017/01/30 03:21 | 2.33       | 91.74      | 1.30           |
| 2017/01/30 03:36 | 2.32       | 82.85      | 1.19           |
| 2017/01/30 03:51 | 2.32       | 82.85      | 1.19           |
| 2017/01/30 04:06 | 2.25       | 81.87      | 1.23           |
| 2017/01/30 04:21 | 2.23       | 81.53      | 1.23           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 04:36 | 2.21       | 79.65      | 1.23           |
| 2017/01/30 04:51 | 2.21       | 80.00      | 1.23           |
| 2017/01/30 05:06 | 2.21       | 80.00      | 1.23           |
| 2017/01/30 05:21 | 2.36       | 87.22      | 1.22           |
| 2017/01/30 05:36 | 2.39       | 87.50      | 1.20           |
| 2017/01/30 05:51 | 2.43       | 90.97      | 1.22           |
| 2017/01/30 06:06 | 2.43       | 89.17      | 1.19           |
| 2017/01/30 06:21 | 2.87       | 114.10     | 1.19           |
| 2017/01/30 06:36 | 3.02       | 108.89     | 1.06           |
| 2017/01/30 06:51 | 3.37       | 188.26     | 1.56           |
| 2017/01/30 07:06 | 3.37       | 186.80     | 1.55           |
| 2017/01/30 07:21 | 3.72       | 217.08     | 1.56           |
| 2017/01/30 07:36 | 3.79       | 228.82     | 1.60           |
| 2017/01/30 07:51 | 3.79       | 243.40     | 1.70           |
| 2017/01/30 08:06 | 4.01       | 248.47     | 1.60           |
| 2017/01/30 08:21 | 4.37       | 299.30     | 1.70           |
| 2017/01/30 08:36 | 4.71       | 332.57     | 1.70           |
| 2017/01/30 08:51 | 4.71       | 369.17     | 1.89           |
| 2017/01/30 09:06 | 4.71       | 369.79     | 1.90           |
| 2017/01/30 09:21 | 4.61       | 358.89     | 1.90           |
| 2017/01/30 09:36 | 4.46       | 330.90     | 1.83           |
| 2017/01/30 09:51 | 4.43       | 338.89     | 1.90           |
| 2017/01/30 10:06 | 4.21       | 304.51     | 1.83           |
| 2017/01/30 10:21 | 4.18       | 298.61     | 1.82           |
| 2017/01/30 10:36 | 4.16       | 300.21     | 1.83           |
| 2017/01/30 10:51 | 4.15       | 310.21     | 1.90           |
| 2017/01/30 11:06 | 4.11       | 294.44     | 1.83           |
| 2017/01/30 11:21 | 4.04       | 287.29     | 1.83           |
| 2017/01/30 11:36 | 4.04       | 298.26     | 1.90           |
| 2017/01/30 11:51 | 3.98       | 283.68     | 1.85           |
| 2017/01/30 12:06 | 3.96       | 280.83     | 1.85           |
| 2017/01/30 12:21 | 3.93       | 277.99     | 1.85           |
| 2017/01/30 12:36 | 3.96       | 280.83     | 1.85           |
| 2017/01/30 12:51 | 3.96       | 277.36     | 1.83           |
| 2017/01/30 13:06 | 3.91       | 273.19     | 1.83           |
| 2017/01/30 13:21 | 3.87       | 260.62     | 1.77           |
| 2017/01/30 13:36 | 3.91       | 253.05     | 1.69           |
| 2017/01/30 13:51 | 3.83       | 235.14     | 1.62           |
| 2017/01/30 14:06 | 3.82       | 233.89     | 1.62           |
| 2017/01/30 14:21 | 3.82       | 220.28     | 1.53           |
| 2017/01/30 14:36 | 3.82       | 227.50     | 1.58           |
| 2017/01/30 14:51 | 3.76       | 228.96     | 1.62           |
| 2017/01/30 15:06 | 3.76       | 230.90     | 1.63           |
| 2017/01/30 15:21 | 3.75       | 221.53     | 1.58           |
| 2017/01/30 15:36 | 3.75       | 229.72     | 1.63           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 15:51 | 3.72       | 227.22     | 1.63           |
| 2017/01/30 16:06 | 3.72       | 226.60     | 1.63           |
| 2017/01/30 16:21 | 3.68       | 222.92     | 1.63           |
| 2017/01/30 16:36 | 3.65       | 220.49     | 1.63           |
| 2017/01/30 16:51 | 3.59       | 215.62     | 1.63           |
| 2017/01/30 17:06 | 3.59       | 204.17     | 1.54           |
| 2017/01/30 17:21 | 3.59       | 220.69     | 1.67           |
| 2017/01/30 17:36 | 3.64       | 219.10     | 1.63           |
| 2017/01/30 17:51 | 3.66       | 226.87     | 1.67           |
| 2017/01/30 18:06 | 3.69       | 238.82     | 1.74           |
| 2017/01/30 18:21 | 3.79       | 258.26     | 1.81           |
| 2017/01/30 18:36 | 3.93       | 272.01     | 1.81           |
| 2017/01/30 18:51 | 4.02       | 281.80     | 1.81           |
| 2017/01/30 19:06 | 4.02       | 281.80     | 1.81           |
| 2017/01/30 19:21 | 4.02       | 281.80     | 1.81           |
| 2017/01/30 19:36 | 4.02       | 281.80     | 1.81           |
| 2017/01/30 19:51 | 4.02       | 287.08     | 1.84           |
| 2017/01/30 20:06 | 3.98       | 253.96     | 1.65           |
| 2017/01/30 20:21 | 3.98       | 273.19     | 1.78           |
| 2017/01/30 20:36 | 4.01       | 285.62     | 1.84           |
| 2017/01/30 20:51 | 4.01       | 290.14     | 1.87           |
| 2017/01/30 21:06 | 3.98       | 273.19     | 1.78           |
| 2017/01/30 21:21 | 3.98       | 274.30     | 1.79           |
| 2017/01/30 21:36 | 3.96       | 284.30     | 1.87           |
| 2017/01/30 21:51 | 3.96       | 284.30     | 1.87           |
| 2017/01/30 22:06 | 3.94       | 270.21     | 1.79           |
| 2017/01/30 22:21 | 3.91       | 267.43     | 1.79           |
| 2017/01/30 22:36 | 3.86       | 250.55     | 1.71           |
| 2017/01/30 22:51 | 3.83       | 247.99     | 1.71           |
| 2017/01/30 23:06 | 3.75       | 240.21     | 1.71           |
| 2017/01/30 23:21 | 3.75       | 240.21     | 1.71           |
| 2017/01/30 23:36 | 3.65       | 231.25     | 1.71           |
| 2017/01/30 23:51 | 3.57       | 214.86     | 1.64           |
| 2017/01/31 00:06 | 3.43       | 202.78     | 1.64           |
| 2017/01/31 00:21 | 3.21       | 176.11     | 1.57           |
| 2017/01/31 00:36 | 3.07       | 165.07     | 1.57           |
| 2017/01/31 00:51 | 3.00       | 152.71     | 1.50           |
| 2017/01/31 01:06 | 3.00       | 129.58     | 1.28           |
| 2017/01/31 01:21 | 2.86       | 120.90     | 1.28           |
| 2017/01/31 01:36 | 2.78       | 129.51     | 1.43           |
| 2017/01/31 01:51 | 2.75       | 127.64     | 1.43           |
| 2017/01/31 02:06 | 2.66       | 122.01     | 1.43           |
| 2017/01/31 02:21 | 2.65       | 126.67     | 1.49           |
| 2017/01/31 02:36 | 2.54       | 118.96     | 1.49           |
| 2017/01/31 02:51 | 2.46       | 98.68      | 1.30           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 03:06 | 2.46       | 95.90      | 1.26           |
| 2017/01/31 03:21 | 2.46       | 95.90      | 1.26           |
| 2017/01/31 03:36 | 2.46       | 86.87      | 1.14           |
| 2017/01/31 03:51 | 2.43       | 90.56      | 1.21           |
| 2017/01/31 04:06 | 2.39       | 88.26      | 1.21           |
| 2017/01/31 04:21 | 2.34       | 86.04      | 1.21           |
| 2017/01/31 04:36 | 2.34       | 84.58      | 1.19           |
| 2017/01/31 04:51 | 2.36       | 86.81      | 1.21           |
| 2017/01/31 05:06 | 2.36       | 85.35      | 1.19           |
| 2017/01/31 05:21 | 2.40       | 84.65      | 1.15           |
| 2017/01/31 05:36 | 2.50       | 89.72      | 1.15           |
| 2017/01/31 05:51 | 2.53       | 93.26      | 1.18           |
| 2017/01/31 06:06 | 2.79       | 107.85     | 1.18           |
| 2017/01/31 06:21 | 2.79       | 114.17     | 1.25           |
| 2017/01/31 06:36 | 2.97       | 133.33     | 1.33           |
| 2017/01/31 06:51 | 3.22       | 160.69     | 1.43           |
| 2017/01/31 07:06 | 3.23       | 176.60     | 1.56           |
| 2017/01/31 07:21 | 3.55       | 223.12     | 1.72           |
| 2017/01/31 07:36 | 3.69       | 250.83     | 1.82           |
| 2017/01/31 07:51 | 3.89       | 272.85     | 1.84           |
| 2017/01/31 08:06 | 4.18       | 326.25     | 1.98           |
| 2017/01/31 08:21 | 4.48       | 335.28     | 1.84           |
| 2017/01/31 08:36 | 4.48       | 335.28     | 1.84           |
| 2017/01/31 08:51 | 4.48       | 343.89     | 1.89           |
| 2017/01/31 09:06 | 4.46       | 340.83     | 1.89           |
| 2017/01/31 09:21 | 4.30       | 305.55     | 1.78           |
| 2017/01/31 09:36 | 4.29       | 322.64     | 1.89           |
| 2017/01/31 09:51 | 4.16       | 309.17     | 1.89           |
| 2017/01/31 10:06 | 4.14       | 310.42     | 1.92           |
| 2017/01/31 10:21 | 4.12       | 293.68     | 1.82           |
| 2017/01/31 10:36 | 4.01       | 282.29     | 1.82           |
| 2017/01/31 10:51 | 4.00       | 280.69     | 1.82           |
| 2017/01/31 11:06 | 3.93       | 273.68     | 1.82           |
| 2017/01/31 11:21 | 3.93       | 273.68     | 1.82           |
| 2017/01/31 11:36 | 4.01       | 279.24     | 1.80           |
| 2017/01/31 11:51 | 3.91       | 279.10     | 1.86           |
| 2017/01/31 12:06 | 4.04       | 292.08     | 1.86           |
| 2017/01/31 12:21 | 4.05       | 292.57     | 1.86           |
| 2017/01/31 12:36 | 4.11       | 292.22     | 1.82           |
| 2017/01/31 12:51 | 4.18       | 305.62     | 1.86           |
| 2017/01/31 13:06 | 4.18       | 299.37     | 1.82           |
| 2017/01/31 13:21 | 4.18       | 297.36     | 1.81           |
| 2017/01/31 13:36 | 4.11       | 290.28     | 1.81           |
| 2017/01/31 13:51 | 4.11       | 271.39     | 1.69           |
| 2017/01/31 14:06 | 4.05       | 266.11     | 1.69           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 14:21 | 4.05       | 266.11     | 1.69           |
| 2017/01/31 14:36 | 4.04       | 281.80     | 1.80           |
| 2017/01/31 14:51 | 4.04       | 281.80     | 1.80           |
| 2017/01/31 15:06 | 4.02       | 295.62     | 1.90           |
| 2017/01/31 15:21 | 4.02       | 295.62     | 1.90           |
| 2017/01/31 15:36 | 4.02       | 272.57     | 1.75           |
| 2017/01/31 15:51 | 3.97       | 267.15     | 1.75           |
| 2017/01/31 16:06 | 3.97       | 267.15     | 1.75           |
| 2017/01/31 16:21 | 3.82       | 252.43     | 1.75           |
| 2017/01/31 16:36 | 3.76       | 250.14     | 1.77           |
| 2017/01/31 16:51 | 3.75       | 248.82     | 1.77           |
| 2017/01/31 17:06 | 3.75       | 244.93     | 1.74           |
| 2017/01/31 17:21 | 3.73       | 247.43     | 1.77           |
| 2017/01/31 17:36 | 3.76       | 197.71     | 1.40           |
| 2017/01/31 17:51 | 4.65       | 235.62     | 1.23           |
| 2017/01/31 18:06 | 4.65       | 235.62     | 1.23           |
| 2017/01/31 18:21 | 3.76       | 236.53     | 1.67           |
| 2017/01/31 18:36 | 3.86       | 199.79     | 1.36           |
| 2017/01/31 18:51 | 3.86       | 245.42     | 1.67           |
| 2017/01/31 19:06 | 3.86       | 247.22     | 1.69           |
| 2017/01/31 19:21 | 3.98       | 258.89     | 1.69           |
| 2017/01/31 19:36 | 4.12       | 219.79     | 1.36           |
| 2017/01/31 19:51 | 4.57       | 209.93     | 1.12           |
| 2017/01/31 20:06 | 5.59       | 272.01     | 1.09           |
| 2017/01/31 20:21 | 5.59       | 272.01     | 1.09           |
| 2017/01/31 20:36 | 4.57       | 203.61     | 1.09           |
| 2017/01/31 20:51 | 5.27       | 404.44     | 1.76           |
| 2017/01/31 21:06 | 4.27       | 323.96     | 1.91           |
| 2017/01/31 21:21 | 4.27       | 323.96     | 1.91           |
| 2017/01/31 21:36 | 4.27       | 323.96     | 1.91           |
| 2017/01/31 21:51 | 4.27       | 323.96     | 1.91           |
| 2017/01/31 22:06 | 4.16       | 304.44     | 1.86           |
| 2017/01/31 22:21 | 3.97       | 282.08     | 1.85           |
| 2017/01/31 22:36 | 3.91       | 259.24     | 1.73           |
| 2017/01/31 22:51 | 3.87       | 274.17     | 1.86           |
| 2017/01/31 23:06 | 3.84       | 252.64     | 1.73           |
| 2017/01/31 23:21 | 3.80       | 247.57     | 1.72           |
| 2017/01/31 23:36 | 3.71       | 238.47     | 1.72           |
| 2017/01/31 23:51 | 3.71       | 234.86     | 1.70           |
| 2017/02/01 00:06 | 3.52       | 215.14     | 1.67           |
| 2017/02/01 00:21 | 3.48       | 211.46     | 1.67           |
| 2017/02/01 00:36 | 3.48       | 197.92     | 1.57           |
| 2017/02/01 00:51 | 3.11       | 167.71     | 1.57           |
| 2017/02/01 01:06 | 3.08       | 165.56     | 1.57           |
| 2017/02/01 01:21 | 3.00       | 158.89     | 1.56           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 01:36 | 2.80       | 132.01     | 1.43           |
| 2017/02/01 01:51 | 2.62       | 119.72     | 1.43           |
| 2017/02/01 02:06 | 2.53       | 113.26     | 1.43           |
| 2017/02/01 02:21 | 2.51       | 111.32     | 1.42           |
| 2017/02/01 02:36 | 2.41       | 105.00     | 1.42           |
| 2017/02/01 02:51 | 2.37       | 99.10      | 1.37           |
| 2017/02/01 03:06 | 2.37       | 94.58      | 1.31           |
| 2017/02/01 03:21 | 2.29       | 83.33      | 1.22           |
| 2017/02/01 03:36 | 2.29       | 83.33      | 1.22           |
| 2017/02/01 03:51 | 2.29       | 83.33      | 1.22           |
| 2017/02/01 04:06 | 2.29       | 88.61      | 1.29           |
| 2017/02/01 04:21 | 2.29       | 83.33      | 1.22           |
| 2017/02/01 04:36 | 2.29       | 88.61      | 1.29           |
| 2017/02/01 04:51 | 2.33       | 90.97      | 1.29           |
| 2017/02/01 05:06 | 2.40       | 97.08      | 1.32           |
| 2017/02/01 05:21 | 2.47       | 96.25      | 1.26           |
| 2017/02/01 05:36 | 2.47       | 96.25      | 1.26           |
| 2017/02/01 05:51 | 2.50       | 94.03      | 1.21           |
| 2017/02/01 06:06 | 2.59       | 99.44      | 1.21           |
| 2017/02/01 06:21 | 2.91       | 117.71     | 1.21           |
| 2017/02/01 06:36 | 3.19       | 134.37     | 1.21           |
| 2017/02/01 06:51 | 3.19       | 147.78     | 1.33           |
| 2017/02/01 07:06 | 3.48       | 185.00     | 1.46           |
| 2017/02/01 07:21 | 3.76       | 217.36     | 1.54           |
| 2017/02/01 07:36 | 3.76       | 217.78     | 1.54           |
| 2017/02/01 07:51 | 4.01       | 254.65     | 1.64           |
| 2017/02/01 08:06 | 4.75       | 324.44     | 1.64           |
| 2017/02/01 08:21 | 5.07       | 368.61     | 1.70           |
| 2017/02/01 08:36 | 5.07       | 357.36     | 1.65           |
| 2017/02/01 08:51 | 4.76       | 337.29     | 1.70           |
| 2017/02/01 09:06 | 4.76       | 327.01     | 1.65           |
| 2017/02/01 09:21 | 4.64       | 324.65     | 1.70           |
| 2017/02/01 09:36 | 4.59       | 310.69     | 1.65           |
| 2017/02/01 09:51 | 4.59       | 290.83     | 1.54           |
| 2017/02/01 10:06 | 4.57       | 288.33     | 1.54           |
| 2017/02/01 10:21 | 4.52       | 329.30     | 1.79           |
| 2017/02/01 10:36 | 4.57       | 246.74     | 1.32           |
| 2017/02/01 10:51 | 4.27       | 303.47     | 1.79           |
| 2017/02/01 11:06 | 4.25       | 300.69     | 1.79           |
| 2017/02/01 11:21 | 4.27       | 291.60     | 1.72           |
| 2017/02/01 11:36 | 4.33       | 297.01     | 1.72           |
| 2017/02/01 11:51 | 4.29       | 305.21     | 1.79           |
| 2017/02/01 12:06 | 4.29       | 298.68     | 1.75           |
| 2017/02/01 12:21 | 4.33       | 303.40     | 1.75           |
| 2017/02/01 12:36 | 4.29       | 299.17     | 1.75           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 12:51 | 4.18       | 288.05     | 1.75           |
| 2017/02/01 13:06 | 4.07       | 277.08     | 1.75           |
| 2017/02/01 13:21 | 4.07       | 277.08     | 1.75           |
| 2017/02/01 13:36 | 4.07       | 256.80     | 1.62           |
| 2017/02/01 13:51 | 4.07       | 287.01     | 1.81           |
| 2017/02/01 14:06 | 4.07       | 284.86     | 1.80           |
| 2017/02/01 14:21 | 3.94       | 272.29     | 1.80           |
| 2017/02/01 14:36 | 3.94       | 272.29     | 1.80           |
| 2017/02/01 14:51 | 3.89       | 266.74     | 1.80           |
| 2017/02/01 15:06 | 3.89       | 256.39     | 1.73           |
| 2017/02/01 15:21 | 3.84       | 241.94     | 1.66           |
| 2017/02/01 15:36 | 3.83       | 240.69     | 1.66           |
| 2017/02/01 15:51 | 3.73       | 231.87     | 1.66           |
| 2017/02/01 16:06 | 3.68       | 236.74     | 1.73           |
| 2017/02/01 16:21 | 3.68       | 212.08     | 1.55           |
| 2017/02/01 16:36 | 3.61       | 206.32     | 1.55           |
| 2017/02/01 16:51 | 3.58       | 204.03     | 1.55           |
| 2017/02/01 17:06 | 3.59       | 208.40     | 1.57           |
| 2017/02/01 17:21 | 3.61       | 201.04     | 1.51           |
| 2017/02/01 17:36 | 3.61       | 209.51     | 1.57           |
| 2017/02/01 17:51 | 3.79       | 254.10     | 1.78           |
| 2017/02/01 18:06 | 3.79       | 254.10     | 1.78           |
| 2017/02/01 18:21 | 3.83       | 258.12     | 1.78           |
| 2017/02/01 18:36 | 3.83       | 259.93     | 1.79           |
| 2017/02/01 18:51 | 3.89       | 263.61     | 1.78           |
| 2017/02/01 19:06 | 3.91       | 231.80     | 1.55           |
| 2017/02/01 19:21 | 3.93       | 232.99     | 1.55           |
| 2017/02/01 19:36 | 3.93       | 226.11     | 1.50           |
| 2017/02/01 19:51 | 4.01       | 233.05     | 1.50           |
| 2017/02/01 20:06 | 4.09       | 240.14     | 1.50           |
| 2017/02/01 20:21 | 4.12       | 242.43     | 1.50           |
| 2017/02/01 20:36 | 4.25       | 252.64     | 1.50           |
| 2017/02/01 20:51 | 4.22       | 300.62     | 1.80           |
| 2017/02/01 21:06 | 4.25       | 314.51     | 1.87           |
| 2017/02/01 21:21 | 4.25       | 314.51     | 1.87           |
| 2017/02/01 21:36 | 4.22       | 301.18     | 1.81           |
| 2017/02/01 21:51 | 3.98       | 277.15     | 1.81           |
| 2017/02/01 22:06 | 3.97       | 275.76     | 1.81           |
| 2017/02/01 22:21 | 3.97       | 274.37     | 1.80           |
| 2017/02/01 22:36 | 3.94       | 271.60     | 1.80           |
| 2017/02/01 22:51 | 3.86       | 238.75     | 1.63           |
| 2017/02/01 23:06 | 3.80       | 233.75     | 1.63           |
| 2017/02/01 23:21 | 3.79       | 232.50     | 1.63           |
| 2017/02/01 23:36 | 3.73       | 227.15     | 1.63           |
| 2017/02/01 23:51 | 3.55       | 212.43     | 1.63           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 00:06 | 3.37       | 208.33     | 1.73           |
| 2017/02/02 00:21 | 3.30       | 202.15     | 1.73           |
| 2017/02/02 00:36 | 3.18       | 191.11     | 1.73           |
| 2017/02/02 00:51 | 3.12       | 186.25     | 1.73           |
| 2017/02/02 01:06 | 3.11       | 174.10     | 1.63           |
| 2017/02/02 01:21 | 3.08       | 164.72     | 1.56           |
| 2017/02/02 01:36 | 2.93       | 139.31     | 1.42           |
| 2017/02/02 01:51 | 2.71       | 120.83     | 1.38           |
| 2017/02/02 02:06 | 2.66       | 117.85     | 1.38           |
| 2017/02/02 02:21 | 2.65       | 111.53     | 1.31           |
| 2017/02/02 02:36 | 2.65       | 102.01     | 1.20           |
| 2017/02/02 02:51 | 2.51       | 94.31      | 1.20           |
| 2017/02/02 03:06 | 2.43       | 89.72      | 1.20           |
| 2017/02/02 03:21 | 2.28       | 81.39      | 1.20           |
| 2017/02/02 03:36 | 2.26       | 84.31      | 1.25           |
| 2017/02/02 03:51 | 2.26       | 86.32      | 1.28           |
| 2017/02/02 04:06 | 2.26       | 86.87      | 1.29           |
| 2017/02/02 04:21 | 2.22       | 87.85      | 1.34           |
| 2017/02/02 04:36 | 2.26       | 90.28      | 1.34           |
| 2017/02/02 04:51 | 2.22       | 87.85      | 1.34           |
| 2017/02/02 05:06 | 2.22       | 83.19      | 1.27           |
| 2017/02/02 05:21 | 2.25       | 84.37      | 1.27           |
| 2017/02/02 05:36 | 2.32       | 88.26      | 1.27           |
| 2017/02/02 05:51 | 2.34       | 88.54      | 1.25           |
| 2017/02/02 06:06 | 2.48       | 96.32      | 1.25           |
| 2017/02/02 06:21 | 2.78       | 113.33     | 1.25           |
| 2017/02/02 06:36 | 2.83       | 116.67     | 1.25           |
| 2017/02/02 06:51 | 3.01       | 127.64     | 1.25           |
| 2017/02/02 07:06 | 3.15       | 154.37     | 1.41           |
| 2017/02/02 07:21 | 3.44       | 197.01     | 1.59           |
| 2017/02/02 07:36 | 3.44       | 223.12     | 1.80           |
| 2017/02/02 07:51 | 3.80       | 260.90     | 1.82           |
| 2017/02/02 08:06 | 4.26       | 307.50     | 1.82           |
| 2017/02/02 08:21 | 4.30       | 314.44     | 1.83           |
| 2017/02/02 08:36 | 4.39       | 323.26     | 1.83           |
| 2017/02/02 08:51 | 4.51       | 325.35     | 1.77           |
| 2017/02/02 09:06 | 4.51       | 320.00     | 1.74           |
| 2017/02/02 09:21 | 4.51       | 325.35     | 1.77           |
| 2017/02/02 09:36 | 4.25       | 298.33     | 1.77           |
| 2017/02/02 09:51 | 4.15       | 288.54     | 1.77           |
| 2017/02/02 10:06 | 4.11       | 284.37     | 1.77           |
| 2017/02/02 10:21 | 4.11       | 284.37     | 1.77           |
| 2017/02/02 10:36 | 3.93       | 259.86     | 1.73           |
| 2017/02/02 10:51 | 3.91       | 258.54     | 1.73           |
| 2017/02/02 11:06 | 3.91       | 251.67     | 1.68           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 11:21 | 3.91       | 258.54     | 1.73           |
| 2017/02/02 11:36 | 3.86       | 258.89     | 1.77           |
| 2017/02/02 11:51 | 3.86       | 266.46     | 1.82           |
| 2017/02/02 12:06 | 3.84       | 257.50     | 1.77           |
| 2017/02/02 12:21 | 3.84       | 257.50     | 1.77           |
| 2017/02/02 12:36 | 3.84       | 248.61     | 1.70           |
| 2017/02/02 12:51 | 3.84       | 248.61     | 1.70           |
| 2017/02/02 13:06 | 3.83       | 247.29     | 1.70           |
| 2017/02/02 13:21 | 3.83       | 247.50     | 1.71           |
| 2017/02/02 13:36 | 3.69       | 234.65     | 1.71           |
| 2017/02/02 13:51 | 3.69       | 234.65     | 1.71           |
| 2017/02/02 14:06 | 3.68       | 226.46     | 1.66           |
| 2017/02/02 14:21 | 3.61       | 220.28     | 1.66           |
| 2017/02/02 14:36 | 3.61       | 220.28     | 1.66           |
| 2017/02/02 14:51 | 3.57       | 215.21     | 1.64           |
| 2017/02/02 15:06 | 3.54       | 212.78     | 1.64           |
| 2017/02/02 15:21 | 3.48       | 212.64     | 1.68           |
| 2017/02/02 15:36 | 3.46       | 205.55     | 1.64           |
| 2017/02/02 15:51 | 3.41       | 197.50     | 1.61           |
| 2017/02/02 16:06 | 3.39       | 186.80     | 1.54           |
| 2017/02/02 16:21 | 3.37       | 193.96     | 1.61           |
| 2017/02/02 16:36 | 3.37       | 185.69     | 1.54           |
| 2017/02/02 16:51 | 3.41       | 197.50     | 1.61           |
| 2017/02/02 17:06 | 3.41       | 188.89     | 1.54           |
| 2017/02/02 17:21 | 3.44       | 150.56     | 1.21           |
| 2017/02/02 17:36 | 3.47       | 152.29     | 1.21           |
| 2017/02/02 17:51 | 3.47       | 211.39     | 1.68           |
| 2017/02/02 18:06 | 3.50       | 213.82     | 1.68           |
| 2017/02/02 18:21 | 3.55       | 218.75     | 1.68           |
| 2017/02/02 18:36 | 3.71       | 232.57     | 1.68           |
| 2017/02/02 18:51 | 3.71       | 248.19     | 1.79           |
| 2017/02/02 19:06 | 3.75       | 235.28     | 1.67           |
| 2017/02/02 19:21 | 3.79       | 239.10     | 1.67           |
| 2017/02/02 19:36 | 3.86       | 233.54     | 1.59           |
| 2017/02/02 19:51 | 3.89       | 265.83     | 1.79           |
| 2017/02/02 20:06 | 4.04       | 299.93     | 1.92           |
| 2017/02/02 20:21 | 4.04       | 299.93     | 1.92           |
| 2017/02/02 20:36 | 4.05       | 299.51     | 1.90           |
| 2017/02/02 20:51 | 4.08       | 302.50     | 1.90           |
| 2017/02/02 21:06 | 4.08       | 297.15     | 1.87           |
| 2017/02/02 21:21 | 4.05       | 294.24     | 1.87           |
| 2017/02/02 21:36 | 4.08       | 297.15     | 1.87           |
| 2017/02/02 21:51 | 4.05       | 294.24     | 1.87           |
| 2017/02/02 22:06 | 4.05       | 280.55     | 1.78           |
| 2017/02/02 22:21 | 5.58       | 317.01     | 1.27           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 22:36 | 5.58       | 317.01     | 1.27           |
| 2017/02/02 22:51 | 4.05       | 242.08     | 1.54           |
| 2017/02/02 23:06 | 3.86       | 225.49     | 1.54           |
| 2017/02/02 23:21 | 3.68       | 235.90     | 1.72           |
| 2017/02/02 23:36 | 3.59       | 228.19     | 1.72           |
| 2017/02/02 23:51 | 3.57       | 225.62     | 1.72           |
| 2017/02/03 00:06 | 3.50       | 219.24     | 1.72           |
| 2017/02/03 00:21 | 3.30       | 196.94     | 1.68           |
| 2017/02/03 00:36 | 3.14       | 180.69     | 1.66           |
| 2017/02/03 00:51 | 3.14       | 180.69     | 1.66           |
| 2017/02/03 01:06 | 3.11       | 154.51     | 1.44           |
| 2017/02/03 01:21 | 2.84       | 135.69     | 1.44           |
| 2017/02/03 01:36 | 2.78       | 130.90     | 1.44           |
| 2017/02/03 01:51 | 2.71       | 125.07     | 1.43           |
| 2017/02/03 02:06 | 2.64       | 118.12     | 1.40           |
| 2017/02/03 02:21 | 2.58       | 114.44     | 1.40           |
| 2017/02/03 02:36 | 2.51       | 100.07     | 1.28           |
| 2017/02/03 02:51 | 2.44       | 96.04      | 1.28           |
| 2017/02/03 03:06 | 2.40       | 93.61      | 1.28           |
| 2017/02/03 03:21 | 2.30       | 91.60      | 1.33           |
| 2017/02/03 03:36 | 2.29       | 87.36      | 1.28           |
| 2017/02/03 03:51 | 2.26       | 87.92      | 1.31           |
| 2017/02/03 04:06 | 2.26       | 87.92      | 1.31           |
| 2017/02/03 04:21 | 2.26       | 74.72      | 1.11           |
| 2017/02/03 04:36 | 2.26       | 74.72      | 1.11           |
| 2017/02/03 04:51 | 2.26       | 76.87      | 1.14           |
| 2017/02/03 05:06 | 2.28       | 77.57      | 1.14           |
| 2017/02/03 05:21 | 2.28       | 82.43      | 1.21           |
| 2017/02/03 05:36 | 2.29       | 85.83      | 1.25           |
| 2017/02/03 05:51 | 2.29       | 97.15      | 1.42           |
| 2017/02/03 06:06 | 2.46       | 108.61     | 1.43           |
| 2017/02/03 06:21 | 2.68       | 124.24     | 1.44           |
| 2017/02/03 06:36 | 2.93       | 145.76     | 1.48           |
| 2017/02/03 06:51 | 3.05       | 154.93     | 1.48           |
| 2017/02/03 07:06 | 3.34       | 171.87     | 1.44           |
| 2017/02/03 07:21 | 3.84       | 226.80     | 1.55           |
| 2017/02/03 07:36 | 4.33       | 258.19     | 1.49           |
| 2017/02/03 07:51 | 5.37       | 267.99     | 1.14           |
| 2017/02/03 08:06 | 5.48       | 361.73     | 1.49           |
| 2017/02/03 08:21 | 5.54       | 366.94     | 1.49           |
| 2017/02/03 08:36 | 5.54       | 366.94     | 1.49           |
| 2017/02/03 08:51 | 5.54       | 440.62     | 1.79           |
| 2017/02/03 09:06 | 4.54       | 331.60     | 1.79           |
| 2017/02/03 09:21 | 4.52       | 330.21     | 1.79           |
| 2017/02/03 09:36 | 4.36       | 312.85     | 1.79           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 09:51 | 4.36       | 306.46     | 1.75           |
| 2017/02/03 10:06 | 4.27       | 297.50     | 1.75           |
| 2017/02/03 10:21 | 4.26       | 296.11     | 1.75           |
| 2017/02/03 10:36 | 4.26       | 296.11     | 1.75           |
| 2017/02/03 10:51 | 4.22       | 292.22     | 1.75           |
| 2017/02/03 11:06 | 4.22       | 292.22     | 1.75           |
| 2017/02/03 11:21 | 4.19       | 295.76     | 1.79           |
| 2017/02/03 11:36 | 4.29       | 305.69     | 1.79           |
| 2017/02/03 11:51 | 4.26       | 302.85     | 1.79           |
| 2017/02/03 12:06 | 4.26       | 313.19     | 1.85           |
| 2017/02/03 12:21 | 4.23       | 310.28     | 1.85           |
| 2017/02/03 12:36 | 4.26       | 273.19     | 1.61           |
| 2017/02/03 12:51 | 4.23       | 282.85     | 1.69           |
| 2017/02/03 13:06 | 4.15       | 274.86     | 1.69           |
| 2017/02/03 13:21 | 4.11       | 270.90     | 1.69           |
| 2017/02/03 13:36 | 4.15       | 274.86     | 1.69           |
| 2017/02/03 13:51 | 4.11       | 270.90     | 1.69           |
| 2017/02/03 14:06 | 4.11       | 264.30     | 1.65           |
| 2017/02/03 14:21 | 4.07       | 260.49     | 1.65           |
| 2017/02/03 14:36 | 4.01       | 255.35     | 1.65           |
| 2017/02/03 14:51 | 4.01       | 255.35     | 1.65           |
| 2017/02/03 15:06 | 3.97       | 251.53     | 1.65           |
| 2017/02/03 15:21 | 3.93       | 234.37     | 1.56           |
| 2017/02/03 15:36 | 3.90       | 232.01     | 1.56           |
| 2017/02/03 15:51 | 3.86       | 228.40     | 1.56           |
| 2017/02/03 16:06 | 3.82       | 231.67     | 1.61           |
| 2017/02/03 16:21 | 3.82       | 239.86     | 1.66           |
| 2017/02/03 16:36 | 3.80       | 249.79     | 1.74           |
| 2017/02/03 16:51 | 3.80       | 249.79     | 1.74           |
| 2017/02/03 17:06 | 3.80       | 238.61     | 1.66           |
| 2017/02/03 17:21 | 3.82       | 239.86     | 1.66           |
| 2017/02/03 17:36 | 3.83       | 257.08     | 1.77           |
| 2017/02/03 17:51 | 3.84       | 241.46     | 1.66           |
| 2017/02/03 18:06 | 3.86       | 242.78     | 1.66           |
| 2017/02/03 18:21 | 3.86       | 242.78     | 1.66           |
| 2017/02/03 18:36 | 3.94       | 250.35     | 1.66           |
| 2017/02/03 18:51 | 4.86       | 276.74     | 1.36           |
| 2017/02/03 19:06 | 5.91       | 272.01     | 1.01           |
| 2017/02/03 19:21 | 5.91       | 264.17     | 0.98           |
| 2017/02/03 19:36 | 5.91       | 264.17     | 0.98           |
| 2017/02/03 19:51 | 5.89       | 269.79     | 1.01           |
| 2017/02/03 20:06 | 5.89       | 262.43     | 0.98           |
| 2017/02/03 20:21 | 5.87       | 268.89     | 1.01           |
| 2017/02/03 20:36 | 5.87       | 292.15     | 1.09           |
| 2017/02/03 20:51 | 5.55       | 270.62     | 1.10           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 21:06 | 5.55       | 280.42     | 1.14           |
| 2017/02/03 21:21 | 5.51       | 277.50     | 1.14           |
| 2017/02/03 21:36 | 5.51       | 267.78     | 1.10           |
| 2017/02/03 21:51 | 4.97       | 239.44     | 1.14           |
| 2017/02/03 22:06 | 4.71       | 221.53     | 1.14           |
| 2017/02/03 22:21 | 4.36       | 232.57     | 1.33           |
| 2017/02/03 22:36 | 4.08       | 215.62     | 1.36           |
| 2017/02/03 22:51 | 4.08       | 215.62     | 1.36           |
| 2017/02/03 23:06 | 3.96       | 206.18     | 1.36           |
| 2017/02/03 23:21 | 3.94       | 230.76     | 1.53           |
| 2017/02/03 23:36 | 3.90       | 249.51     | 1.68           |
| 2017/02/03 23:51 | 3.87       | 255.49     | 1.73           |
| 2017/02/04 00:06 | 3.76       | 248.82     | 1.76           |
| 2017/02/04 00:21 | 3.75       | 243.61     | 1.73           |
| 2017/02/04 00:36 | 3.58       | 228.12     | 1.73           |
| 2017/02/04 00:51 | 3.52       | 227.29     | 1.77           |
| 2017/02/04 01:06 | 3.34       | 210.55     | 1.77           |
| 2017/02/04 01:21 | 3.32       | 209.10     | 1.78           |
| 2017/02/04 01:36 | 3.32       | 209.10     | 1.78           |
| 2017/02/04 01:51 | 3.27       | 183.96     | 1.59           |
| 2017/02/04 02:06 | 3.25       | 175.97     | 1.54           |
| 2017/02/04 02:21 | 3.18       | 176.11     | 1.59           |
| 2017/02/04 02:36 | 3.19       | 171.25     | 1.54           |
| 2017/02/04 02:51 | 3.18       | 170.14     | 1.54           |
| 2017/02/04 03:06 | 3.14       | 164.79     | 1.52           |
| 2017/02/04 03:21 | 2.90       | 147.01     | 1.52           |
| 2017/02/04 03:36 | 2.90       | 147.01     | 1.52           |
| 2017/02/04 03:51 | 2.84       | 149.65     | 1.59           |
| 2017/02/04 04:06 | 2.82       | 147.50     | 1.59           |
| 2017/02/04 04:21 | 2.79       | 153.33     | 1.68           |
| 2017/02/04 04:36 | 2.65       | 134.93     | 1.59           |
| 2017/02/04 04:51 | 2.64       | 126.18     | 1.50           |
| 2017/02/04 05:06 | 2.64       | 126.18     | 1.50           |
| 2017/02/04 05:21 | 2.62       | 122.64     | 1.47           |
| 2017/02/04 05:36 | 2.57       | 118.89     | 1.47           |
| 2017/02/04 05:51 | 2.57       | 112.57     | 1.39           |
| 2017/02/04 06:06 | 2.57       | 125.42     | 1.55           |
| 2017/02/04 06:21 | 2.57       | 112.57     | 1.39           |
| 2017/02/04 06:36 | 2.57       | 119.86     | 1.48           |
| 2017/02/04 06:51 | 2.61       | 115.28     | 1.39           |
| 2017/02/04 07:06 | 2.72       | 130.49     | 1.48           |
| 2017/02/04 07:21 | 3.00       | 150.35     | 1.48           |
| 2017/02/04 07:36 | 3.04       | 157.71     | 1.52           |
| 2017/02/04 07:51 | 3.33       | 182.01     | 1.54           |
| 2017/02/04 08:06 | 3.33       | 182.01     | 1.54           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 08:21 | 3.43       | 189.79     | 1.54           |
| 2017/02/04 08:36 | 3.43       | 193.54     | 1.57           |
| 2017/02/04 08:51 | 3.79       | 236.67     | 1.66           |
| 2017/02/04 09:06 | 4.12       | 269.30     | 1.67           |
| 2017/02/04 09:21 | 4.26       | 284.24     | 1.68           |
| 2017/02/04 09:36 | 4.36       | 333.12     | 1.91           |
| 2017/02/04 09:51 | 4.36       | 333.12     | 1.91           |
| 2017/02/04 10:06 | 4.46       | 312.15     | 1.73           |
| 2017/02/04 10:21 | 4.55       | 322.01     | 1.73           |
| 2017/02/04 10:36 | 4.57       | 327.99     | 1.75           |
| 2017/02/04 10:51 | 4.57       | 326.53     | 1.75           |
| 2017/02/04 11:06 | 4.64       | 335.14     | 1.75           |
| 2017/02/04 11:21 | 4.66       | 338.05     | 1.75           |
| 2017/02/04 11:36 | 4.66       | 336.60     | 1.75           |
| 2017/02/04 11:51 | 4.71       | 322.15     | 1.65           |
| 2017/02/04 12:06 | 4.71       | 322.15     | 1.65           |
| 2017/02/04 12:21 | 4.71       | 322.15     | 1.65           |
| 2017/02/04 12:36 | 4.71       | 322.15     | 1.65           |
| 2017/02/04 12:51 | 4.71       | 322.15     | 1.65           |
| 2017/02/04 13:06 | 4.71       | 344.79     | 1.77           |
| 2017/02/04 13:21 | 4.61       | 319.86     | 1.69           |
| 2017/02/04 13:36 | 4.61       | 319.86     | 1.69           |
| 2017/02/04 13:51 | 4.61       | 319.86     | 1.69           |
| 2017/02/04 14:06 | 4.61       | 319.86     | 1.69           |
| 2017/02/04 14:21 | 4.62       | 316.60     | 1.66           |
| 2017/02/04 14:36 | 4.62       | 313.40     | 1.65           |
| 2017/02/04 14:51 | 4.62       | 313.40     | 1.65           |
| 2017/02/04 15:06 | 4.62       | 313.40     | 1.65           |
| 2017/02/04 15:21 | 4.44       | 325.55     | 1.81           |
| 2017/02/04 15:36 | 4.44       | 325.55     | 1.81           |
| 2017/02/04 15:51 | 4.34       | 324.65     | 1.87           |
| 2017/02/04 16:06 | 4.30       | 311.04     | 1.81           |
| 2017/02/04 16:21 | 4.40       | 329.58     | 1.86           |
| 2017/02/04 16:36 | 4.40       | 317.71     | 1.79           |
| 2017/02/04 16:51 | 4.29       | 311.67     | 1.83           |
| 2017/02/04 17:06 | 4.32       | 309.10     | 1.79           |
| 2017/02/04 17:21 | 4.32       | 314.10     | 1.82           |
| 2017/02/04 17:36 | 4.32       | 314.10     | 1.82           |
| 2017/02/04 17:51 | 4.22       | 303.96     | 1.82           |
| 2017/02/04 18:06 | 4.32       | 314.10     | 1.82           |
| 2017/02/04 18:21 | 4.32       | 314.10     | 1.82           |
| 2017/02/04 18:36 | 4.26       | 310.35     | 1.83           |
| 2017/02/04 18:51 | 4.33       | 299.44     | 1.73           |
| 2017/02/04 19:06 | 4.34       | 300.76     | 1.73           |
| 2017/02/04 19:21 | 4.51       | 316.11     | 1.72           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 19:36 | 4.54       | 301.39     | 1.63           |
| 2017/02/04 19:51 | 4.54       | 271.67     | 1.47           |
| 2017/02/04 20:06 | 4.54       | 271.67     | 1.47           |
| 2017/02/04 20:21 | 4.30       | 251.60     | 1.47           |
| 2017/02/04 20:36 | 4.26       | 276.25     | 1.63           |
| 2017/02/04 20:51 | 4.25       | 285.00     | 1.69           |
| 2017/02/04 21:06 | 4.25       | 300.90     | 1.79           |
| 2017/02/04 21:21 | 4.08       | 284.30     | 1.79           |
| 2017/02/04 21:36 | 4.05       | 281.53     | 1.79           |
| 2017/02/04 21:51 | 4.05       | 281.53     | 1.79           |
| 2017/02/04 22:06 | 3.97       | 273.19     | 1.79           |
| 2017/02/04 22:21 | 3.96       | 245.62     | 1.62           |
| 2017/02/04 22:36 | 3.90       | 240.62     | 1.62           |
| 2017/02/04 22:51 | 3.90       | 271.11     | 1.82           |
| 2017/02/04 23:06 | 3.89       | 272.64     | 1.84           |
| 2017/02/04 23:21 | 3.90       | 271.11     | 1.82           |
| 2017/02/04 23:36 | 3.90       | 271.11     | 1.82           |
| 2017/02/04 23:51 | 3.91       | 265.83     | 1.78           |
| 2017/02/05 00:06 | 3.79       | 247.36     | 1.73           |
| 2017/02/05 00:21 | 3.84       | 252.64     | 1.73           |
| 2017/02/05 00:36 | 3.76       | 231.80     | 1.64           |
| 2017/02/05 00:51 | 3.71       | 239.51     | 1.73           |
| 2017/02/05 01:06 | 3.71       | 239.51     | 1.73           |
| 2017/02/05 01:21 | 3.65       | 221.94     | 1.64           |
| 2017/02/05 01:36 | 3.64       | 220.69     | 1.64           |
| 2017/02/05 01:51 | 3.50       | 201.80     | 1.59           |
| 2017/02/05 02:06 | 3.50       | 201.80     | 1.59           |
| 2017/02/05 02:21 | 3.26       | 193.54     | 1.68           |
| 2017/02/05 02:36 | 3.16       | 185.21     | 1.68           |
| 2017/02/05 02:51 | 3.11       | 163.47     | 1.53           |
| 2017/02/05 03:06 | 3.11       | 160.21     | 1.50           |
| 2017/02/05 03:21 | 3.04       | 155.00     | 1.50           |
| 2017/02/05 03:36 | 3.02       | 153.96     | 1.50           |
| 2017/02/05 03:51 | 3.01       | 152.92     | 1.50           |
| 2017/02/05 04:06 | 2.97       | 149.86     | 1.50           |
| 2017/02/05 04:21 | 2.75       | 124.51     | 1.39           |
| 2017/02/05 04:36 | 2.75       | 124.51     | 1.39           |
| 2017/02/05 04:51 | 2.71       | 121.74     | 1.39           |
| 2017/02/05 05:06 | 2.59       | 113.75     | 1.38           |
| 2017/02/05 05:21 | 2.59       | 113.75     | 1.38           |
| 2017/02/05 05:36 | 2.59       | 120.42     | 1.46           |
| 2017/02/05 05:51 | 2.59       | 120.42     | 1.46           |
| 2017/02/05 06:06 | 2.64       | 116.39     | 1.38           |
| 2017/02/05 06:21 | 2.69       | 118.47     | 1.36           |
| 2017/02/05 06:36 | 2.69       | 118.47     | 1.36           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 06:51 | 2.71       | 118.68     | 1.36           |
| 2017/02/05 07:06 | 2.71       | 118.68     | 1.36           |
| 2017/02/05 07:21 | 2.80       | 124.51     | 1.35           |
| 2017/02/05 07:36 | 3.00       | 137.85     | 1.36           |
| 2017/02/05 07:51 | 3.08       | 152.01     | 1.44           |
| 2017/02/05 08:06 | 3.25       | 166.53     | 1.46           |
| 2017/02/05 08:21 | 3.40       | 199.65     | 1.64           |
| 2017/02/05 08:36 | 3.44       | 205.14     | 1.65           |
| 2017/02/05 08:51 | 3.54       | 211.60     | 1.64           |
| 2017/02/05 09:06 | 3.75       | 229.93     | 1.64           |
| 2017/02/05 09:21 | 3.91       | 247.15     | 1.65           |
| 2017/02/05 09:36 | 3.97       | 237.99     | 1.56           |
| 2017/02/05 09:51 | 4.22       | 254.79     | 1.53           |
| 2017/02/05 10:06 | 4.47       | 282.36     | 1.56           |
| 2017/02/05 10:21 | 4.59       | 269.30     | 1.43           |
| 2017/02/05 10:36 | 4.75       | 282.22     | 1.43           |
| 2017/02/05 10:51 | 4.79       | 330.97     | 1.65           |
| 2017/02/05 11:06 | 4.79       | 330.97     | 1.65           |
| 2017/02/05 11:21 | 4.82       | 332.43     | 1.65           |
| 2017/02/05 11:36 | 4.79       | 329.72     | 1.65           |
| 2017/02/05 11:51 | 4.80       | 331.11     | 1.65           |
| 2017/02/05 12:06 | 4.82       | 319.86     | 1.59           |
| 2017/02/05 12:21 | 4.82       | 317.36     | 1.57           |
| 2017/02/05 12:36 | 6.07       | 371.25     | 1.33           |
| 2017/02/05 12:51 | 6.07       | 371.25     | 1.33           |
| 2017/02/05 13:06 | 6.07       | 371.25     | 1.33           |
| 2017/02/05 13:21 | 6.07       | 422.92     | 1.51           |
| 2017/02/05 13:36 | 6.07       | 422.92     | 1.51           |
| 2017/02/05 13:51 | 6.07       | 422.92     | 1.51           |
| 2017/02/05 14:06 | 6.83       | 399.03     | 1.21           |
| 2017/02/05 14:21 | 6.83       | 399.03     | 1.21           |
| 2017/02/05 14:36 | 6.83       | 399.03     | 1.21           |
| 2017/02/05 14:51 | 5.15       | 326.80     | 1.47           |
| 2017/02/05 15:06 | 5.01       | 367.78     | 1.72           |
| 2017/02/05 15:21 | 5.01       | 367.78     | 1.72           |
| 2017/02/05 15:36 | 5.15       | 326.80     | 1.47           |
| 2017/02/05 15:51 | 5.01       | 314.30     | 1.47           |
| 2017/02/05 16:06 | 5.01       | 365.48     | 1.71           |
| 2017/02/05 16:21 | 4.55       | 318.61     | 1.71           |
| 2017/02/05 16:36 | 4.55       | 318.61     | 1.71           |
| 2017/02/05 16:51 | 4.55       | 318.61     | 1.71           |
| 2017/02/05 17:06 | 4.05       | 287.29     | 1.83           |
| 2017/02/05 17:21 | 3.94       | 255.69     | 1.69           |
| 2017/02/05 17:36 | 3.93       | 253.19     | 1.68           |
| 2017/02/05 17:51 | 3.93       | 254.37     | 1.69           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 18:06 | 3.89       | 250.49     | 1.69           |
| 2017/02/05 18:21 | 3.89       | 250.49     | 1.69           |
| 2017/02/05 18:36 | 3.90       | 264.93     | 1.78           |
| 2017/02/05 18:51 | 3.93       | 274.79     | 1.83           |
| 2017/02/05 19:06 | 3.90       | 270.21     | 1.81           |
| 2017/02/05 19:21 | 3.90       | 272.01     | 1.83           |
| 2017/02/05 19:36 | 3.84       | 271.74     | 1.86           |
| 2017/02/05 19:51 | 3.84       | 271.74     | 1.86           |
| 2017/02/05 20:06 | 3.84       | 264.65     | 1.81           |
| 2017/02/05 20:21 | 4.15       | 293.26     | 1.80           |
| 2017/02/05 20:36 | 4.23       | 301.80     | 1.80           |
| 2017/02/05 20:51 | 4.33       | 311.80     | 1.80           |
| 2017/02/05 21:06 | 4.25       | 303.26     | 1.80           |
| 2017/02/05 21:21 | 4.32       | 310.42     | 1.80           |
| 2017/02/05 21:36 | 4.33       | 287.50     | 1.66           |
| 2017/02/05 21:51 | 4.32       | 286.18     | 1.66           |
| 2017/02/05 22:06 | 4.32       | 280.69     | 1.63           |
| 2017/02/05 22:21 | 4.32       | 286.18     | 1.66           |
| 2017/02/05 22:36 | 4.26       | 289.44     | 1.71           |
| 2017/02/05 22:51 | 4.02       | 270.62     | 1.74           |
| 2017/02/05 23:06 | 3.93       | 257.36     | 1.71           |
| 2017/02/05 23:21 | 3.79       | 246.67     | 1.73           |
| 2017/02/05 23:36 | 3.61       | 227.64     | 1.71           |
| 2017/02/05 23:51 | 3.41       | 212.08     | 1.73           |
| 2017/02/06 00:06 | 3.39       | 209.58     | 1.73           |
| 2017/02/06 00:21 | 3.41       | 212.08     | 1.73           |
| 2017/02/06 00:36 | 3.39       | 207.92     | 1.71           |
| 2017/02/06 00:51 | 3.39       | 207.92     | 1.71           |
| 2017/02/06 01:06 | 3.15       | 187.15     | 1.71           |
| 2017/02/06 01:21 | 3.11       | 176.25     | 1.64           |
| 2017/02/06 01:36 | 2.97       | 164.86     | 1.64           |
| 2017/02/06 01:51 | 2.90       | 153.06     | 1.58           |
| 2017/02/06 02:06 | 2.82       | 131.94     | 1.42           |
| 2017/02/06 02:21 | 2.82       | 129.51     | 1.40           |
| 2017/02/06 02:36 | 2.73       | 123.96     | 1.40           |
| 2017/02/06 02:51 | 2.72       | 123.06     | 1.40           |
| 2017/02/06 03:06 | 2.65       | 113.54     | 1.34           |
| 2017/02/06 03:21 | 2.65       | 109.44     | 1.29           |
| 2017/02/06 03:36 | 2.73       | 114.51     | 1.29           |
| 2017/02/06 03:51 | 2.75       | 115.35     | 1.29           |
| 2017/02/06 04:06 | 2.75       | 115.35     | 1.29           |
| 2017/02/06 04:21 | 2.76       | 123.33     | 1.37           |
| 2017/02/06 04:36 | 2.76       | 126.39     | 1.40           |
| 2017/02/06 04:51 | 3.02       | 162.43     | 1.58           |
| 2017/02/06 05:06 | 3.04       | 163.54     | 1.58           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 05:21 | 3.11       | 169.03     | 1.58           |
| 2017/02/06 05:36 | 3.15       | 172.36     | 1.58           |
| 2017/02/06 05:51 | 3.27       | 182.36     | 1.58           |
| 2017/02/06 06:06 | 3.30       | 148.96     | 1.27           |
| 2017/02/06 06:21 | 3.36       | 152.57     | 1.27           |
| 2017/02/06 06:36 | 3.93       | 245.42     | 1.63           |
| 2017/02/06 06:51 | 4.34       | 266.80     | 1.53           |
| 2017/02/06 07:06 | 4.36       | 300.55     | 1.72           |
| 2017/02/06 07:21 | 4.36       | 300.55     | 1.72           |
| 2017/02/06 07:36 | 4.51       | 315.83     | 1.72           |
| 2017/02/06 07:51 | 5.23       | 369.37     | 1.63           |
| 2017/02/06 08:06 | 6.12       | 461.25     | 1.63           |
| 2017/02/06 08:21 | 6.12       | 411.53     | 1.45           |
| 2017/02/06 08:36 | 6.50       | 447.36     | 1.45           |
| 2017/02/06 08:51 | 6.98       | 494.72     | 1.45           |
| 2017/02/06 09:06 | 6.50       | 469.44     | 1.52           |
| 2017/02/06 09:21 | 6.26       | 445.69     | 1.52           |
| 2017/02/06 09:36 | 6.50       | 469.44     | 1.52           |
| 2017/02/06 09:51 | 6.26       | 445.69     | 1.52           |
| 2017/02/06 10:06 | 6.26       | 389.37     | 1.33           |
| 2017/02/06 10:21 | 6.26       | 389.37     | 1.33           |
| 2017/02/06 10:36 | 5.21       | 299.86     | 1.33           |
| 2017/02/06 10:51 | 5.19       | 342.57     | 1.53           |
| 2017/02/06 11:06 | 5.19       | 336.11     | 1.50           |
| 2017/02/06 11:21 | 5.05       | 329.58     | 1.53           |
| 2017/02/06 11:36 | 4.73       | 300.21     | 1.53           |
| 2017/02/06 11:51 | 4.59       | 304.65     | 1.62           |
| 2017/02/06 12:06 | 4.47       | 309.17     | 1.71           |
| 2017/02/06 12:21 | 4.14       | 291.11     | 1.80           |
| 2017/02/06 12:36 | 4.11       | 288.33     | 1.80           |
| 2017/02/06 12:51 | 4.11       | 292.71     | 1.82           |
| 2017/02/06 13:06 | 4.11       | 288.33     | 1.80           |
| 2017/02/06 13:21 | 4.11       | 261.87     | 1.63           |
| 2017/02/06 13:36 | 4.11       | 261.87     | 1.63           |
| 2017/02/06 13:51 | 3.89       | 270.35     | 1.83           |
| 2017/02/06 14:06 | 3.87       | 266.94     | 1.81           |
| 2017/02/06 14:21 | 3.87       | 266.94     | 1.81           |
| 2017/02/06 14:36 | 3.87       | 266.94     | 1.81           |
| 2017/02/06 14:51 | 3.87       | 261.53     | 1.77           |
| 2017/02/06 15:06 | 3.83       | 255.97     | 1.76           |
| 2017/02/06 15:21 | 3.83       | 245.97     | 1.70           |
| 2017/02/06 15:36 | 3.83       | 235.14     | 1.62           |
| 2017/02/06 15:51 | 3.83       | 245.97     | 1.70           |
| 2017/02/06 16:06 | 3.75       | 238.26     | 1.70           |
| 2017/02/06 16:21 | 3.69       | 233.19     | 1.70           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 16:36 | 3.69       | 233.82     | 1.70           |
| 2017/02/06 16:51 | 3.69       | 247.22     | 1.80           |
| 2017/02/06 17:06 | 3.69       | 233.82     | 1.70           |
| 2017/02/06 17:21 | 3.71       | 248.61     | 1.80           |
| 2017/02/06 17:36 | 3.72       | 249.93     | 1.80           |
| 2017/02/06 17:51 | 3.73       | 240.00     | 1.72           |
| 2017/02/06 18:06 | 4.00       | 221.60     | 1.44           |
| 2017/02/06 18:21 | 3.80       | 246.46     | 1.72           |
| 2017/02/06 18:36 | 3.87       | 252.99     | 1.72           |
| 2017/02/06 18:51 | 4.00       | 274.51     | 1.78           |
| 2017/02/06 19:06 | 4.07       | 284.86     | 1.80           |
| 2017/02/06 19:21 | 3.91       | 270.42     | 1.81           |
| 2017/02/06 19:36 | 3.91       | 278.40     | 1.86           |
| 2017/02/06 19:51 | 3.91       | 284.58     | 1.90           |
| 2017/02/06 20:06 | 3.91       | 278.40     | 1.86           |
| 2017/02/06 20:21 | 3.91       | 278.40     | 1.86           |
| 2017/02/06 20:36 | 4.14       | 247.08     | 1.52           |
| 2017/02/06 20:51 | 4.83       | 255.90     | 1.26           |
| 2017/02/06 21:06 | 4.83       | 255.90     | 1.26           |
| 2017/02/06 21:21 | 4.83       | 255.90     | 1.26           |
| 2017/02/06 21:36 | 4.14       | 300.76     | 1.86           |
| 2017/02/06 21:51 | 4.11       | 297.85     | 1.86           |
| 2017/02/06 22:06 | 4.09       | 296.39     | 1.86           |
| 2017/02/06 22:21 | 4.04       | 290.62     | 1.86           |
| 2017/02/06 22:36 | 4.01       | 281.60     | 1.82           |
| 2017/02/06 22:51 | 4.00       | 276.18     | 1.79           |
| 2017/02/06 23:06 | 4.00       | 276.18     | 1.79           |
| 2017/02/06 23:21 | 3.87       | 246.74     | 1.67           |
| 2017/02/06 23:36 | 3.73       | 226.94     | 1.62           |
| 2017/02/06 23:51 | 3.72       | 204.10     | 1.47           |
| 2017/02/07 00:06 | 3.55       | 190.97     | 1.47           |
| 2017/02/07 00:21 | 3.44       | 201.74     | 1.62           |
| 2017/02/07 00:36 | 3.29       | 198.61     | 1.71           |
| 2017/02/07 00:51 | 3.27       | 197.36     | 1.71           |
| 2017/02/07 01:06 | 3.19       | 190.14     | 1.71           |
| 2017/02/07 01:21 | 3.27       | 187.85     | 1.63           |
| 2017/02/07 01:36 | 3.14       | 167.08     | 1.54           |
| 2017/02/07 01:51 | 3.12       | 162.71     | 1.51           |
| 2017/02/07 02:06 | 3.07       | 144.72     | 1.38           |
| 2017/02/07 02:21 | 2.96       | 137.15     | 1.38           |
| 2017/02/07 02:36 | 2.89       | 140.69     | 1.46           |
| 2017/02/07 02:51 | 2.89       | 140.69     | 1.46           |
| 2017/02/07 03:06 | 2.86       | 145.83     | 1.54           |
| 2017/02/07 03:21 | 2.89       | 147.85     | 1.54           |
| 2017/02/07 03:36 | 2.91       | 152.50     | 1.56           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 03:51 | 2.91       | 152.50     | 1.56           |
| 2017/02/07 04:06 | 2.80       | 141.11     | 1.53           |
| 2017/02/07 04:21 | 2.80       | 139.44     | 1.51           |
| 2017/02/07 04:36 | 2.80       | 141.11     | 1.53           |
| 2017/02/07 04:51 | 2.80       | 141.11     | 1.53           |
| 2017/02/07 05:06 | 2.97       | 153.54     | 1.53           |
| 2017/02/07 05:21 | 3.07       | 171.18     | 1.63           |
| 2017/02/07 05:36 | 3.07       | 171.18     | 1.63           |
| 2017/02/07 05:51 | 3.07       | 155.14     | 1.48           |
| 2017/02/07 06:06 | 3.12       | 159.31     | 1.48           |
| 2017/02/07 06:21 | 3.12       | 167.15     | 1.55           |
| 2017/02/07 06:36 | 3.12       | 167.15     | 1.55           |
| 2017/02/07 06:51 | 3.26       | 178.12     | 1.55           |
| 2017/02/07 07:06 | 3.50       | 197.71     | 1.55           |
| 2017/02/07 07:21 | 4.02       | 241.60     | 1.55           |
| 2017/02/07 07:36 | 4.52       | 256.11     | 1.39           |
| 2017/02/07 07:51 | 4.72       | 272.08     | 1.39           |
| 2017/02/07 08:06 | 4.76       | 306.11     | 1.54           |
| 2017/02/07 08:21 | 4.77       | 276.67     | 1.39           |
| 2017/02/07 08:36 | 4.77       | 307.36     | 1.54           |
| 2017/02/07 08:51 | 4.76       | 336.94     | 1.70           |
| 2017/02/07 09:06 | 4.40       | 302.01     | 1.70           |
| 2017/02/07 09:21 | 4.37       | 299.30     | 1.70           |
| 2017/02/07 09:36 | 4.32       | 302.50     | 1.75           |
| 2017/02/07 09:51 | 4.32       | 302.50     | 1.75           |
| 2017/02/07 10:06 | 4.29       | 306.74     | 1.80           |
| 2017/02/07 10:21 | 4.22       | 302.15     | 1.81           |
| 2017/02/07 10:36 | 4.22       | 302.15     | 1.81           |
| 2017/02/07 10:51 | 4.14       | 285.69     | 1.76           |
| 2017/02/07 11:06 | 4.07       | 278.82     | 1.76           |
| 2017/02/07 11:21 | 4.07       | 278.82     | 1.76           |
| 2017/02/07 11:36 | 4.02       | 271.39     | 1.74           |
| 2017/02/07 11:51 | 4.02       | 271.39     | 1.74           |
| 2017/02/07 12:06 | 4.08       | 276.80     | 1.74           |
| 2017/02/07 12:21 | 4.08       | 273.89     | 1.72           |
| 2017/02/07 12:36 | 4.05       | 271.18     | 1.72           |
| 2017/02/07 12:51 | 4.14       | 288.40     | 1.78           |
| 2017/02/07 13:06 | 4.14       | 288.40     | 1.78           |
| 2017/02/07 13:21 | 4.08       | 256.87     | 1.62           |
| 2017/02/07 13:36 | 4.14       | 261.94     | 1.62           |
| 2017/02/07 13:51 | 4.14       | 261.94     | 1.62           |
| 2017/02/07 14:06 | 4.08       | 248.12     | 1.56           |
| 2017/02/07 14:21 | 3.98       | 248.12     | 1.62           |
| 2017/02/07 14:36 | 3.96       | 237.22     | 1.56           |
| 2017/02/07 14:51 | 3.89       | 270.62     | 1.83           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 15:06 | 3.89       | 231.25     | 1.56           |
| 2017/02/07 15:21 | 3.86       | 256.39     | 1.75           |
| 2017/02/07 15:36 | 3.86       | 209.65     | 1.43           |
| 2017/02/07 15:51 | 3.89       | 175.42     | 1.18           |
| 2017/02/07 16:06 | 3.86       | 173.61     | 1.18           |
| 2017/02/07 16:21 | 3.86       | 230.90     | 1.57           |
| 2017/02/07 16:36 | 3.64       | 175.35     | 1.30           |
| 2017/02/07 16:51 | 3.91       | 195.07     | 1.30           |
| 2017/02/07 17:06 | 3.71       | 180.21     | 1.30           |
| 2017/02/07 17:21 | 3.71       | 147.08     | 1.06           |
| 2017/02/07 17:36 | 3.71       | 147.08     | 1.06           |
| 2017/02/07 17:51 | 3.87       | 156.74     | 1.06           |
| 2017/02/07 18:06 | 3.79       | 184.58     | 1.29           |
| 2017/02/07 18:21 | 3.79       | 199.37     | 1.40           |
| 2017/02/07 18:36 | 3.87       | 205.76     | 1.40           |
| 2017/02/07 18:51 | 3.87       | 210.07     | 1.43           |
| 2017/02/07 19:06 | 4.01       | 200.42     | 1.29           |
| 2017/02/07 19:21 | 4.01       | 190.97     | 1.23           |
| 2017/02/07 19:36 | 4.01       | 189.51     | 1.22           |
| 2017/02/07 19:51 | 4.01       | 190.97     | 1.23           |
| 2017/02/07 20:06 | 4.08       | 195.76     | 1.23           |
| 2017/02/07 20:21 | 4.02       | 209.30     | 1.34           |
| 2017/02/07 20:36 | 4.05       | 211.39     | 1.34           |
| 2017/02/07 20:51 | 4.07       | 212.43     | 1.34           |
| 2017/02/07 21:06 | 4.07       | 212.43     | 1.34           |
| 2017/02/07 21:21 | 4.07       | 246.94     | 1.56           |
| 2017/02/07 21:36 | 4.18       | 256.74     | 1.56           |
| 2017/02/07 21:51 | 4.18       | 261.25     | 1.59           |
| 2017/02/07 22:06 | 4.18       | 261.25     | 1.59           |
| 2017/02/07 22:21 | 4.02       | 247.57     | 1.59           |
| 2017/02/07 22:36 | 3.90       | 223.12     | 1.50           |
| 2017/02/07 22:51 | 3.84       | 218.12     | 1.50           |
| 2017/02/07 23:06 | 3.84       | 185.21     | 1.27           |
| 2017/02/07 23:21 | 3.64       | 170.83     | 1.27           |
| 2017/02/07 23:36 | 3.62       | 169.86     | 1.27           |
| 2017/02/07 23:51 | 3.64       | 170.83     | 1.27           |
| 2017/02/08 00:06 | 3.57       | 168.89     | 1.29           |
| 2017/02/08 00:21 | 3.47       | 162.29     | 1.29           |
| 2017/02/08 00:36 | 3.44       | 138.75     | 1.12           |
| 2017/02/08 00:51 | 3.16       | 106.32     | 0.97           |
| 2017/02/08 01:06 | 3.08       | 102.15     | 0.97           |
| 2017/02/08 01:21 | 3.08       | 94.10      | 0.89           |
| 2017/02/08 01:36 | 3.01       | 90.97      | 0.89           |
| 2017/02/08 01:51 | 2.97       | 94.03      | 0.94           |
| 2017/02/08 02:06 | 2.72       | 82.71      | 0.94           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 02:21 | 2.72       | 82.71      | 0.94           |
| 2017/02/08 02:36 | 2.64       | 81.32      | 0.97           |
| 2017/02/08 02:51 | 2.64       | 81.32      | 0.97           |
| 2017/02/08 03:06 | 2.54       | 70.42      | 0.88           |
| 2017/02/08 03:21 | 2.41       | 65.42      | 0.88           |
| 2017/02/08 03:36 | 2.41       | 71.46      | 0.97           |
| 2017/02/08 03:51 | 2.41       | 73.06      | 0.99           |
| 2017/02/08 04:06 | 2.40       | 72.43      | 0.99           |
| 2017/02/08 04:21 | 2.40       | 72.43      | 0.99           |
| 2017/02/08 04:36 | 2.41       | 70.14      | 0.95           |
| 2017/02/08 04:51 | 2.43       | 60.83      | 0.81           |
| 2017/02/08 05:06 | 2.43       | 60.83      | 0.81           |
| 2017/02/08 05:21 | 2.53       | 70.97      | 0.90           |
| 2017/02/08 05:36 | 2.65       | 76.11      | 0.90           |
| 2017/02/08 05:51 | 2.68       | 77.29      | 0.90           |
| 2017/02/08 06:06 | 2.68       | 90.97      | 1.06           |
| 2017/02/08 06:21 | 2.71       | 80.76      | 0.92           |
| 2017/02/08 06:36 | 3.18       | 116.81     | 1.06           |
| 2017/02/08 06:51 | 3.37       | 111.32     | 0.92           |
| 2017/02/08 07:06 | 3.48       | 139.10     | 1.10           |
| 2017/02/08 07:21 | 3.48       | 138.33     | 1.09           |
| 2017/02/08 07:36 | 4.16       | 179.10     | 1.09           |
| 2017/02/08 07:51 | 4.34       | 190.35     | 1.09           |
| 2017/02/08 08:06 | 4.55       | 204.72     | 1.10           |
| 2017/02/08 08:21 | 5.15       | 242.85     | 1.09           |
| 2017/02/08 08:36 | 5.37       | 248.89     | 1.06           |
| 2017/02/08 08:51 | 5.15       | 234.37     | 1.06           |
| 2017/02/08 09:06 | 5.15       | 234.37     | 1.06           |
| 2017/02/08 09:21 | 5.15       | 234.37     | 1.06           |
| 2017/02/08 09:36 | 4.64       | 239.86     | 1.26           |
| 2017/02/08 09:51 | 4.64       | 239.86     | 1.26           |
| 2017/02/08 10:06 | 4.64       | 239.86     | 1.26           |
| 2017/02/08 10:21 | 4.64       | 260.55     | 1.36           |
| 2017/02/08 10:36 | 4.55       | 243.05     | 1.31           |
| 2017/02/08 10:51 | 4.15       | 212.78     | 1.31           |
| 2017/02/08 11:06 | 4.15       | 248.33     | 1.52           |
| 2017/02/08 11:21 | 4.12       | 254.03     | 1.57           |
| 2017/02/08 11:36 | 4.12       | 255.49     | 1.58           |
| 2017/02/08 11:51 | 4.12       | 255.49     | 1.58           |
| 2017/02/08 12:06 | 3.93       | 236.94     | 1.57           |
| 2017/02/08 12:21 | 3.91       | 181.32     | 1.21           |
| 2017/02/08 12:36 | 3.89       | 179.51     | 1.21           |
| 2017/02/08 12:51 | 3.69       | 166.67     | 1.21           |
| 2017/02/08 13:06 | 3.69       | 166.67     | 1.21           |
| 2017/02/08 13:21 | 3.69       | 188.47     | 1.37           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 13:36 | 3.98       | 210.35     | 1.37           |
| 2017/02/08 13:51 | 3.98       | 209.93     | 1.37           |
| 2017/02/08 14:06 | 3.98       | 209.93     | 1.37           |
| 2017/02/08 14:21 | 3.76       | 197.29     | 1.40           |
| 2017/02/08 14:36 | 3.71       | 189.10     | 1.37           |
| 2017/02/08 14:51 | 3.71       | 189.10     | 1.37           |
| 2017/02/08 15:06 | 3.71       | 193.05     | 1.40           |
| 2017/02/08 15:21 | 3.72       | 194.17     | 1.40           |
| 2017/02/08 15:36 | 3.72       | 150.83     | 1.08           |
| 2017/02/08 15:51 | 3.72       | 159.10     | 1.14           |
| 2017/02/08 16:06 | 3.64       | 189.30     | 1.41           |
| 2017/02/08 16:21 | 3.62       | 153.12     | 1.14           |
| 2017/02/08 16:36 | 3.61       | 152.29     | 1.14           |
| 2017/02/08 16:51 | 3.61       | 152.29     | 1.14           |
| 2017/02/08 17:06 | 3.61       | 164.44     | 1.24           |
| 2017/02/08 17:21 | 3.66       | 152.57     | 1.12           |
| 2017/02/08 17:36 | 3.68       | 162.64     | 1.19           |
| 2017/02/08 17:51 | 3.68       | 162.64     | 1.19           |
| 2017/02/08 18:06 | 3.68       | 162.64     | 1.19           |
| 2017/02/08 18:21 | 3.68       | 162.64     | 1.19           |
| 2017/02/08 18:36 | 3.69       | 163.47     | 1.19           |
| 2017/02/08 18:51 | 3.68       | 165.35     | 1.21           |
| 2017/02/08 19:06 | 3.75       | 167.29     | 1.19           |
| 2017/02/08 19:21 | 3.82       | 174.44     | 1.21           |
| 2017/02/08 19:36 | 3.82       | 171.81     | 1.19           |
| 2017/02/08 19:51 | 3.84       | 173.61     | 1.19           |
| 2017/02/08 20:06 | 4.02       | 154.10     | 0.99           |
| 2017/02/08 20:21 | 4.02       | 154.10     | 0.99           |
| 2017/02/08 20:36 | 4.02       | 154.10     | 0.99           |
| 2017/02/08 20:51 | 4.01       | 211.53     | 1.36           |
| 2017/02/08 21:06 | 3.98       | 209.44     | 1.36           |
| 2017/02/08 21:21 | 3.98       | 209.44     | 1.36           |
| 2017/02/08 21:36 | 3.98       | 209.44     | 1.36           |
| 2017/02/08 21:51 | 4.00       | 235.90     | 1.53           |
| 2017/02/08 22:06 | 4.01       | 219.37     | 1.41           |
| 2017/02/08 22:21 | 4.04       | 222.29     | 1.42           |
| 2017/02/08 22:36 | 4.04       | 222.29     | 1.42           |
| 2017/02/08 22:51 | 4.04       | 222.29     | 1.42           |
| 2017/02/08 23:06 | 4.04       | 222.29     | 1.42           |
| 2017/02/08 23:21 | 3.72       | 197.29     | 1.42           |
| 2017/02/08 23:36 | 3.72       | 196.87     | 1.42           |
| 2017/02/08 23:51 | 3.69       | 200.42     | 1.46           |
| 2017/02/09 00:06 | 3.55       | 184.24     | 1.42           |
| 2017/02/09 00:21 | 3.23       | 156.18     | 1.38           |
| 2017/02/09 00:36 | 3.09       | 146.53     | 1.38           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 00:51 | 3.09       | 146.53     | 1.38           |
| 2017/02/09 01:06 | 3.09       | 144.86     | 1.36           |
| 2017/02/09 01:21 | 2.96       | 134.10     | 1.35           |
| 2017/02/09 01:36 | 2.83       | 105.97     | 1.13           |
| 2017/02/09 01:51 | 2.76       | 92.57      | 1.03           |
| 2017/02/09 02:06 | 2.65       | 72.50      | 0.85           |
| 2017/02/09 02:21 | 2.55       | 68.06      | 0.85           |
| 2017/02/09 02:36 | 2.43       | 63.19      | 0.85           |
| 2017/02/09 02:51 | 2.43       | 59.03      | 0.79           |
| 2017/02/09 03:06 | 2.33       | 55.56      | 0.79           |
| 2017/02/09 03:21 | 2.32       | 55.07      | 0.79           |
| 2017/02/09 03:36 | 2.23       | 54.37      | 0.82           |
| 2017/02/09 03:51 | 2.23       | 54.37      | 0.82           |
| 2017/02/09 04:06 | 2.22       | 59.93      | 0.92           |
| 2017/02/09 04:21 | 2.22       | 54.93      | 0.84           |
| 2017/02/09 04:36 | 2.23       | 60.49      | 0.92           |
| 2017/02/09 04:51 | 2.25       | 60.97      | 0.92           |
| 2017/02/09 05:06 | 2.25       | 60.97      | 0.92           |
| 2017/02/09 05:21 | 2.33       | 75.49      | 1.07           |
| 2017/02/09 05:36 | 2.41       | 79.51      | 1.07           |
| 2017/02/09 05:51 | 2.41       | 70.83      | 0.96           |
| 2017/02/09 06:06 | 2.58       | 71.11      | 0.87           |
| 2017/02/09 06:21 | 2.72       | 84.31      | 0.96           |
| 2017/02/09 06:36 | 2.84       | 90.07      | 0.96           |
| 2017/02/09 06:51 | 3.21       | 118.12     | 1.05           |
| 2017/02/09 07:06 | 3.34       | 148.96     | 1.25           |
| 2017/02/09 07:21 | 3.48       | 157.99     | 1.25           |
| 2017/02/09 07:36 | 3.48       | 157.99     | 1.25           |
| 2017/02/09 07:51 | 4.44       | 224.44     | 1.25           |
| 2017/02/09 08:06 | 4.79       | 252.78     | 1.26           |
| 2017/02/09 08:21 | 4.79       | 220.42     | 1.10           |
| 2017/02/09 08:36 | 4.77       | 264.51     | 1.33           |
| 2017/02/09 08:51 | 4.77       | 242.29     | 1.22           |
| 2017/02/09 09:06 | 4.52       | 224.30     | 1.22           |
| 2017/02/09 09:21 | 4.50       | 222.36     | 1.22           |
| 2017/02/09 09:36 | 4.39       | 216.11     | 1.23           |
| 2017/02/09 09:51 | 4.30       | 210.28     | 1.23           |
| 2017/02/09 10:06 | 4.30       | 258.68     | 1.51           |
| 2017/02/09 10:21 | 4.14       | 260.49     | 1.61           |
| 2017/02/09 10:36 | 4.07       | 238.47     | 1.51           |
| 2017/02/09 10:51 | 4.00       | 232.64     | 1.51           |
| 2017/02/09 11:06 | 4.00       | 224.86     | 1.46           |
| 2017/02/09 11:21 | 3.97       | 222.64     | 1.46           |
| 2017/02/09 11:36 | 3.96       | 156.53     | 1.03           |
| 2017/02/09 11:51 | 3.96       | 156.53     | 1.03           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 12:06 | 3.90       | 191.80     | 1.29           |
| 2017/02/09 12:21 | 3.89       | 223.12     | 1.51           |
| 2017/02/09 12:36 | 3.89       | 199.58     | 1.35           |
| 2017/02/09 12:51 | 3.89       | 199.58     | 1.35           |
| 2017/02/09 13:06 | 3.90       | 191.80     | 1.29           |
| 2017/02/09 13:21 | 3.89       | 199.58     | 1.35           |
| 2017/02/09 13:36 | 3.76       | 190.42     | 1.35           |
| 2017/02/09 13:51 | 3.76       | 218.19     | 1.54           |
| 2017/02/09 14:06 | 3.71       | 219.03     | 1.58           |
| 2017/02/09 14:21 | 3.71       | 219.03     | 1.58           |
| 2017/02/09 14:36 | 3.71       | 213.54     | 1.54           |
| 2017/02/09 14:51 | 3.71       | 213.54     | 1.54           |
| 2017/02/09 15:06 | 3.71       | 207.22     | 1.50           |
| 2017/02/09 15:21 | 3.71       | 177.92     | 1.29           |
| 2017/02/09 15:36 | 3.71       | 177.92     | 1.29           |
| 2017/02/09 15:51 | 3.71       | 177.92     | 1.29           |
| 2017/02/09 16:06 | 3.72       | 178.89     | 1.29           |
| 2017/02/09 16:21 | 3.82       | 150.83     | 1.05           |
| 2017/02/09 16:36 | 3.82       | 150.83     | 1.05           |
| 2017/02/09 16:51 | 3.76       | 133.89     | 0.95           |
| 2017/02/09 17:06 | 3.76       | 133.89     | 0.95           |
| 2017/02/09 17:21 | 3.76       | 133.89     | 0.95           |
| 2017/02/09 17:36 | 3.76       | 171.39     | 1.21           |
| 2017/02/09 17:51 | 3.76       | 171.39     | 1.21           |
| 2017/02/09 18:06 | 3.79       | 173.26     | 1.21           |
| 2017/02/09 18:21 | 3.79       | 173.26     | 1.21           |
| 2017/02/09 18:36 | 3.79       | 193.05     | 1.35           |
| 2017/02/09 18:51 | 3.79       | 167.57     | 1.17           |
| 2017/02/09 19:06 | 3.79       | 167.57     | 1.17           |
| 2017/02/09 19:21 | 3.79       | 167.57     | 1.17           |
| 2017/02/09 19:36 | 3.90       | 174.72     | 1.17           |
| 2017/02/09 19:51 | 3.97       | 179.24     | 1.17           |
| 2017/02/09 20:06 | 4.29       | 227.50     | 1.33           |
| 2017/02/09 20:21 | 4.40       | 191.67     | 1.08           |
| 2017/02/09 20:36 | 4.40       | 266.32     | 1.50           |
| 2017/02/09 20:51 | 4.43       | 268.75     | 1.50           |
| 2017/02/09 21:06 | 4.43       | 247.43     | 1.38           |
| 2017/02/09 21:21 | 4.43       | 247.43     | 1.38           |
| 2017/02/09 21:36 | 4.34       | 250.62     | 1.44           |
| 2017/02/09 21:51 | 4.34       | 250.62     | 1.44           |
| 2017/02/09 22:06 | 4.30       | 247.15     | 1.44           |
| 2017/02/09 22:21 | 4.16       | 235.76     | 1.44           |
| 2017/02/09 22:36 | 4.11       | 203.33     | 1.27           |
| 2017/02/09 22:51 | 4.09       | 202.29     | 1.27           |
| 2017/02/09 23:06 | 3.77       | 176.87     | 1.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 23:21 | 3.69       | 171.25     | 1.25           |
| 2017/02/09 23:36 | 3.69       | 171.25     | 1.25           |
| 2017/02/09 23:51 | 3.66       | 160.69     | 1.18           |
| 2017/02/10 00:06 | 3.55       | 149.72     | 1.15           |
| 2017/02/10 00:21 | 3.51       | 147.15     | 1.15           |
| 2017/02/10 00:36 | 3.50       | 150.21     | 1.18           |
| 2017/02/10 00:51 | 3.39       | 147.78     | 1.22           |
| 2017/02/10 01:06 | 3.39       | 179.58     | 1.48           |
| 2017/02/10 01:21 | 3.33       | 175.35     | 1.48           |
| 2017/02/10 01:36 | 3.32       | 174.31     | 1.48           |
| 2017/02/10 01:51 | 3.18       | 163.75     | 1.48           |
| 2017/02/10 02:06 | 3.18       | 161.04     | 1.46           |
| 2017/02/10 02:21 | 3.15       | 145.83     | 1.34           |
| 2017/02/10 02:36 | 3.15       | 122.99     | 1.13           |
| 2017/02/10 02:51 | 2.76       | 100.76     | 1.12           |
| 2017/02/10 03:06 | 2.58       | 91.32      | 1.12           |
| 2017/02/10 03:21 | 2.44       | 73.19      | 0.97           |
| 2017/02/10 03:36 | 2.43       | 60.00      | 0.80           |
| 2017/02/10 03:51 | 2.36       | 69.51      | 0.97           |
| 2017/02/10 04:06 | 2.30       | 54.17      | 0.78           |
| 2017/02/10 04:21 | 2.30       | 54.17      | 0.78           |
| 2017/02/10 04:36 | 2.43       | 80.07      | 1.07           |
| 2017/02/10 04:51 | 2.79       | 107.43     | 1.17           |
| 2017/02/10 05:06 | 2.82       | 110.00     | 1.19           |
| 2017/02/10 05:21 | 2.84       | 113.61     | 1.21           |
| 2017/02/10 05:36 | 2.94       | 117.22     | 1.19           |
| 2017/02/10 05:51 | 3.02       | 122.08     | 1.19           |
| 2017/02/10 06:06 | 3.11       | 109.86     | 1.03           |
| 2017/02/10 06:21 | 3.11       | 106.74     | 1.00           |
| 2017/02/10 06:36 | 3.12       | 107.43     | 1.00           |
| 2017/02/10 06:51 | 3.15       | 112.01     | 1.03           |
| 2017/02/10 07:06 | 3.21       | 140.90     | 1.26           |
| 2017/02/10 07:21 | 3.21       | 140.90     | 1.26           |
| 2017/02/10 07:36 | 3.40       | 153.47     | 1.26           |
| 2017/02/10 07:51 | 3.98       | 193.05     | 1.26           |
| 2017/02/10 08:06 | 4.14       | 219.17     | 1.35           |
| 2017/02/10 08:21 | 4.23       | 265.00     | 1.58           |
| 2017/02/10 08:36 | 4.23       | 265.00     | 1.58           |
| 2017/02/10 08:51 | 4.44       | 283.96     | 1.58           |
| 2017/02/10 09:06 | 4.55       | 288.82     | 1.55           |
| 2017/02/10 09:21 | 4.55       | 243.05     | 1.31           |
| 2017/02/10 09:36 | 4.58       | 191.67     | 1.02           |
| 2017/02/10 09:51 | 4.58       | 185.90     | 0.99           |
| 2017/02/10 10:06 | 4.55       | 184.30     | 0.99           |
| 2017/02/10 10:21 | 4.58       | 185.90     | 0.99           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 10:36 | 4.58       | 191.67     | 1.02           |
| 2017/02/10 10:51 | 4.43       | 206.25     | 1.15           |
| 2017/02/10 11:06 | 3.98       | 177.08     | 1.15           |
| 2017/02/10 11:21 | 3.98       | 205.69     | 1.34           |
| 2017/02/10 11:36 | 3.98       | 226.53     | 1.48           |
| 2017/02/10 11:51 | 4.16       | 219.30     | 1.34           |
| 2017/02/10 12:06 | 4.36       | 205.62     | 1.18           |
| 2017/02/10 12:21 | 4.36       | 234.17     | 1.34           |
| 2017/02/10 12:36 | 4.36       | 241.87     | 1.38           |
| 2017/02/10 12:51 | 4.00       | 213.54     | 1.38           |
| 2017/02/10 13:06 | 3.98       | 212.50     | 1.38           |
| 2017/02/10 13:21 | 3.96       | 210.35     | 1.38           |
| 2017/02/10 13:36 | 3.87       | 199.72     | 1.36           |
| 2017/02/10 13:51 | 3.87       | 172.50     | 1.17           |
| 2017/02/10 14:06 | 3.73       | 163.61     | 1.17           |
| 2017/02/10 14:21 | 3.68       | 160.07     | 1.17           |
| 2017/02/10 14:36 | 3.68       | 156.94     | 1.15           |
| 2017/02/10 14:51 | 3.68       | 178.47     | 1.30           |
| 2017/02/10 15:06 | 3.68       | 185.35     | 1.36           |
| 2017/02/10 15:21 | 3.65       | 185.42     | 1.37           |
| 2017/02/10 15:36 | 3.65       | 183.33     | 1.36           |
| 2017/02/10 15:51 | 3.58       | 178.33     | 1.36           |
| 2017/02/10 16:06 | 3.58       | 165.62     | 1.26           |
| 2017/02/10 16:21 | 3.57       | 157.92     | 1.21           |
| 2017/02/10 16:36 | 3.57       | 157.92     | 1.21           |
| 2017/02/10 16:51 | 3.57       | 153.96     | 1.18           |
| 2017/02/10 17:06 | 3.69       | 162.22     | 1.18           |
| 2017/02/10 17:21 | 3.79       | 172.36     | 1.21           |
| 2017/02/10 17:36 | 3.87       | 210.69     | 1.43           |
| 2017/02/10 17:51 | 3.90       | 215.90     | 1.45           |
| 2017/02/10 18:06 | 3.90       | 217.92     | 1.46           |
| 2017/02/10 18:21 | 3.90       | 217.92     | 1.46           |
| 2017/02/10 18:36 | 3.94       | 219.24     | 1.45           |
| 2017/02/10 18:51 | 3.97       | 224.93     | 1.47           |
| 2017/02/10 19:06 | 4.01       | 222.71     | 1.44           |
| 2017/02/10 19:21 | 4.02       | 222.57     | 1.43           |
| 2017/02/10 19:36 | 4.02       | 222.57     | 1.43           |
| 2017/02/10 19:51 | 4.73       | 213.47     | 1.08           |
| 2017/02/10 20:06 | 4.91       | 215.42     | 1.04           |
| 2017/02/10 20:21 | 5.15       | 220.49     | 0.99           |
| 2017/02/10 20:36 | 5.15       | 230.28     | 1.04           |
| 2017/02/10 20:51 | 5.15       | 230.28     | 1.04           |
| 2017/02/10 21:06 | 3.97       | 151.74     | 0.99           |
| 2017/02/10 21:21 | 3.97       | 198.33     | 1.30           |
| 2017/02/10 21:36 | 3.93       | 225.90     | 1.50           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 21:51 | 3.89       | 192.36     | 1.30           |
| 2017/02/10 22:06 | 3.89       | 145.83     | 0.98           |
| 2017/02/10 22:21 | 3.89       | 222.43     | 1.50           |
| 2017/02/10 22:36 | 3.84       | 220.55     | 1.51           |
| 2017/02/10 22:51 | 3.84       | 220.55     | 1.51           |
| 2017/02/10 23:06 | 3.84       | 220.55     | 1.51           |
| 2017/02/10 23:21 | 3.84       | 220.55     | 1.51           |
| 2017/02/10 23:36 | 3.82       | 196.04     | 1.36           |
| 2017/02/10 23:51 | 3.84       | 195.00     | 1.34           |
| 2017/02/11 00:06 | 3.77       | 182.99     | 1.29           |
| 2017/02/11 00:21 | 3.64       | 174.10     | 1.29           |
| 2017/02/11 00:36 | 3.50       | 164.58     | 1.29           |
| 2017/02/11 00:51 | 3.41       | 158.89     | 1.29           |
| 2017/02/11 01:06 | 3.33       | 153.26     | 1.29           |
| 2017/02/11 01:21 | 3.32       | 152.36     | 1.29           |
| 2017/02/11 01:36 | 3.32       | 150.35     | 1.28           |
| 2017/02/11 01:51 | 3.23       | 144.93     | 1.28           |
| 2017/02/11 02:06 | 3.23       | 112.57     | 0.99           |
| 2017/02/11 02:21 | 3.15       | 108.33     | 0.99           |
| 2017/02/11 02:36 | 3.15       | 139.51     | 1.28           |
| 2017/02/11 02:51 | 3.15       | 123.19     | 1.13           |
| 2017/02/11 03:06 | 2.78       | 81.74      | 0.90           |
| 2017/02/11 03:21 | 2.66       | 96.46      | 1.13           |
| 2017/02/11 03:36 | 2.62       | 94.24      | 1.13           |
| 2017/02/11 03:51 | 2.57       | 91.32      | 1.13           |
| 2017/02/11 04:06 | 2.57       | 73.54      | 0.91           |
| 2017/02/11 04:21 | 2.53       | 78.89      | 1.00           |
| 2017/02/11 04:36 | 2.51       | 78.26      | 1.00           |
| 2017/02/11 04:51 | 2.51       | 79.24      | 1.01           |
| 2017/02/11 05:06 | 2.51       | 79.24      | 1.01           |
| 2017/02/11 05:21 | 2.51       | 86.87      | 1.11           |
| 2017/02/11 05:36 | 2.51       | 86.87      | 1.11           |
| 2017/02/11 05:51 | 2.47       | 77.29      | 1.01           |
| 2017/02/11 06:06 | 2.44       | 83.40      | 1.11           |
| 2017/02/11 06:21 | 2.47       | 67.01      | 0.88           |
| 2017/02/11 06:36 | 2.47       | 61.67      | 0.81           |
| 2017/02/11 06:51 | 2.54       | 69.79      | 0.88           |
| 2017/02/11 07:06 | 2.58       | 75.83      | 0.93           |
| 2017/02/11 07:21 | 2.72       | 81.87      | 0.93           |
| 2017/02/11 07:36 | 3.15       | 101.53     | 0.93           |
| 2017/02/11 07:51 | 3.33       | 139.17     | 1.17           |
| 2017/02/11 08:06 | 3.41       | 144.31     | 1.17           |
| 2017/02/11 08:21 | 3.43       | 145.14     | 1.17           |
| 2017/02/11 08:36 | 3.50       | 150.97     | 1.19           |
| 2017/02/11 08:51 | 3.66       | 161.53     | 1.19           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 09:06 | 4.01       | 177.50     | 1.14           |
| 2017/02/11 09:21 | 4.19       | 189.10     | 1.14           |
| 2017/02/11 09:36 | 4.72       | 194.30     | 0.99           |
| 2017/02/11 09:51 | 4.64       | 189.44     | 0.99           |
| 2017/02/11 10:06 | 6.19       | 283.12     | 0.98           |
| 2017/02/11 10:21 | 4.72       | 194.30     | 0.99           |
| 2017/02/11 10:36 | 4.72       | 218.54     | 1.12           |
| 2017/02/11 10:51 | 4.72       | 218.54     | 1.12           |
| 2017/02/11 11:06 | 4.72       | 192.57     | 0.98           |
| 2017/02/11 11:21 | 4.64       | 158.54     | 0.83           |
| 2017/02/11 11:36 | 4.62       | 157.85     | 0.83           |
| 2017/02/11 11:51 | 4.61       | 157.15     | 0.83           |
| 2017/02/11 12:06 | 4.61       | 215.55     | 1.14           |
| 2017/02/11 12:21 | 4.61       | 264.93     | 1.40           |
| 2017/02/11 12:36 | 4.61       | 264.93     | 1.40           |
| 2017/02/11 12:51 | 4.54       | 232.71     | 1.26           |
| 2017/02/11 13:06 | 4.54       | 232.71     | 1.26           |
| 2017/02/11 13:21 | 4.41       | 223.54     | 1.26           |
| 2017/02/11 13:36 | 4.36       | 219.51     | 1.26           |
| 2017/02/11 13:51 | 4.25       | 237.43     | 1.41           |
| 2017/02/11 14:06 | 4.25       | 237.43     | 1.41           |
| 2017/02/11 14:21 | 4.25       | 237.43     | 1.41           |
| 2017/02/11 14:36 | 4.25       | 222.57     | 1.32           |
| 2017/02/11 14:51 | 4.25       | 177.85     | 1.06           |
| 2017/02/11 15:06 | 4.32       | 182.01     | 1.06           |
| 2017/02/11 15:21 | 4.19       | 174.51     | 1.06           |
| 2017/02/11 15:36 | 4.18       | 173.68     | 1.06           |
| 2017/02/11 15:51 | 4.19       | 169.72     | 1.03           |
| 2017/02/11 16:06 | 4.21       | 225.49     | 1.36           |
| 2017/02/11 16:21 | 4.21       | 225.49     | 1.36           |
| 2017/02/11 16:36 | 4.26       | 173.75     | 1.03           |
| 2017/02/11 16:51 | 4.36       | 204.58     | 1.17           |
| 2017/02/11 17:06 | 4.36       | 237.36     | 1.36           |
| 2017/02/11 17:21 | 4.36       | 204.58     | 1.17           |
| 2017/02/11 17:36 | 4.30       | 174.65     | 1.02           |
| 2017/02/11 17:51 | 4.30       | 200.83     | 1.17           |
| 2017/02/11 18:06 | 4.29       | 238.19     | 1.39           |
| 2017/02/11 18:21 | 4.29       | 235.83     | 1.38           |
| 2017/02/11 18:36 | 4.30       | 239.30     | 1.39           |
| 2017/02/11 18:51 | 4.30       | 239.58     | 1.40           |
| 2017/02/11 19:06 | 4.30       | 239.30     | 1.39           |
| 2017/02/11 19:21 | 4.30       | 239.58     | 1.40           |
| 2017/02/11 19:36 | 4.11       | 239.10     | 1.49           |
| 2017/02/11 19:51 | 4.09       | 237.92     | 1.49           |
| 2017/02/11 20:06 | 4.11       | 216.04     | 1.35           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 20:21 | 4.00       | 210.49     | 1.36           |
| 2017/02/11 20:36 | 4.00       | 207.71     | 1.35           |
| 2017/02/11 20:51 | 4.00       | 200.62     | 1.30           |
| 2017/02/11 21:06 | 3.93       | 195.62     | 1.30           |
| 2017/02/11 21:21 | 3.83       | 188.61     | 1.30           |
| 2017/02/11 21:36 | 3.83       | 168.47     | 1.16           |
| 2017/02/11 21:51 | 3.80       | 186.67     | 1.30           |
| 2017/02/11 22:06 | 3.73       | 205.00     | 1.47           |
| 2017/02/11 22:21 | 3.71       | 202.78     | 1.47           |
| 2017/02/11 22:36 | 3.71       | 202.78     | 1.47           |
| 2017/02/11 22:51 | 3.71       | 202.78     | 1.47           |
| 2017/02/11 23:06 | 3.69       | 201.67     | 1.47           |
| 2017/02/11 23:21 | 3.72       | 190.97     | 1.37           |
| 2017/02/11 23:36 | 3.72       | 200.90     | 1.45           |
| 2017/02/11 23:51 | 3.68       | 187.85     | 1.37           |
| 2017/02/12 00:06 | 3.52       | 173.54     | 1.35           |
| 2017/02/12 00:21 | 3.52       | 173.54     | 1.35           |
| 2017/02/12 00:36 | 3.47       | 172.85     | 1.37           |
| 2017/02/12 00:51 | 3.52       | 166.67     | 1.30           |
| 2017/02/12 01:06 | 3.47       | 165.69     | 1.32           |
| 2017/02/12 01:21 | 3.41       | 161.87     | 1.32           |
| 2017/02/12 01:36 | 3.40       | 152.71     | 1.25           |
| 2017/02/12 01:51 | 3.40       | 129.79     | 1.06           |
| 2017/02/12 02:06 | 3.11       | 119.17     | 1.11           |
| 2017/02/12 02:21 | 3.09       | 118.40     | 1.11           |
| 2017/02/12 02:36 | 3.09       | 118.40     | 1.11           |
| 2017/02/12 02:51 | 3.02       | 114.51     | 1.11           |
| 2017/02/12 03:06 | 2.90       | 107.71     | 1.11           |
| 2017/02/12 03:21 | 2.69       | 85.21      | 0.98           |
| 2017/02/12 03:36 | 2.62       | 82.01      | 0.98           |
| 2017/02/12 03:51 | 2.61       | 76.81      | 0.93           |
| 2017/02/12 04:06 | 2.59       | 80.69      | 0.98           |
| 2017/02/12 04:21 | 2.48       | 75.69      | 0.98           |
| 2017/02/12 04:36 | 2.48       | 65.49      | 0.85           |
| 2017/02/12 04:51 | 2.46       | 64.37      | 0.85           |
| 2017/02/12 05:06 | 2.46       | 67.78      | 0.89           |
| 2017/02/12 05:21 | 2.43       | 59.03      | 0.79           |
| 2017/02/12 05:36 | 2.48       | 68.89      | 0.89           |
| 2017/02/12 05:51 | 2.41       | 66.04      | 0.89           |
| 2017/02/12 06:06 | 2.48       | 67.92      | 0.88           |
| 2017/02/12 06:21 | 2.43       | 65.00      | 0.87           |
| 2017/02/12 06:36 | 2.47       | 66.67      | 0.87           |
| 2017/02/12 06:51 | 2.47       | 61.32      | 0.80           |
| 2017/02/12 07:06 | 2.48       | 67.22      | 0.87           |
| 2017/02/12 07:21 | 2.61       | 72.22      | 0.87           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 07:36 | 2.66       | 91.74      | 1.07           |
| 2017/02/12 07:51 | 2.84       | 100.97     | 1.07           |
| 2017/02/12 08:06 | 3.07       | 118.61     | 1.13           |
| 2017/02/12 08:21 | 3.34       | 134.58     | 1.13           |
| 2017/02/12 08:36 | 3.40       | 161.46     | 1.32           |
| 2017/02/12 08:51 | 3.55       | 172.15     | 1.32           |
| 2017/02/12 09:06 | 3.55       | 172.15     | 1.32           |
| 2017/02/12 09:21 | 3.75       | 175.42     | 1.25           |
| 2017/02/12 09:36 | 3.83       | 171.60     | 1.18           |
| 2017/02/12 09:51 | 4.16       | 193.54     | 1.18           |
| 2017/02/12 10:06 | 4.18       | 168.61     | 1.03           |
| 2017/02/12 10:21 | 4.22       | 208.26     | 1.25           |
| 2017/02/12 10:36 | 4.32       | 176.74     | 1.03           |
| 2017/02/12 10:51 | 4.46       | 266.74     | 1.48           |
| 2017/02/12 11:06 | 4.59       | 186.46     | 0.99           |
| 2017/02/12 11:21 | 4.64       | 183.61     | 0.96           |
| 2017/02/12 11:36 | 4.64       | 183.61     | 0.96           |
| 2017/02/12 11:51 | 4.62       | 248.12     | 1.30           |
| 2017/02/12 12:06 | 4.62       | 248.12     | 1.30           |
| 2017/02/12 12:21 | 4.58       | 244.93     | 1.30           |
| 2017/02/12 12:36 | 4.57       | 243.82     | 1.30           |
| 2017/02/12 12:51 | 4.57       | 265.83     | 1.42           |
| 2017/02/12 13:06 | 4.55       | 223.19     | 1.20           |
| 2017/02/12 13:21 | 4.52       | 221.25     | 1.20           |
| 2017/02/12 13:36 | 4.47       | 207.71     | 1.15           |
| 2017/02/12 13:51 | 4.36       | 200.83     | 1.15           |
| 2017/02/12 14:06 | 4.32       | 197.57     | 1.15           |
| 2017/02/12 14:21 | 4.27       | 195.35     | 1.15           |
| 2017/02/12 14:36 | 4.32       | 197.57     | 1.15           |
| 2017/02/12 14:51 | 4.27       | 195.35     | 1.15           |
| 2017/02/12 15:06 | 4.22       | 196.04     | 1.17           |
| 2017/02/12 15:21 | 4.22       | 196.04     | 1.17           |
| 2017/02/12 15:36 | 4.27       | 199.72     | 1.17           |
| 2017/02/12 15:51 | 4.22       | 215.35     | 1.29           |
| 2017/02/12 16:06 | 4.14       | 209.24     | 1.29           |
| 2017/02/12 16:21 | 4.05       | 192.64     | 1.22           |
| 2017/02/12 16:36 | 4.05       | 195.76     | 1.24           |
| 2017/02/12 16:51 | 4.05       | 195.76     | 1.24           |
| 2017/02/12 17:06 | 4.07       | 196.74     | 1.24           |
| 2017/02/12 17:21 | 4.19       | 205.49     | 1.24           |
| 2017/02/12 17:36 | 4.23       | 208.47     | 1.24           |
| 2017/02/12 17:51 | 4.33       | 208.26     | 1.20           |
| 2017/02/12 18:06 | 4.33       | 197.92     | 1.14           |
| 2017/02/12 18:21 | 4.33       | 197.92     | 1.14           |
| 2017/02/12 18:36 | 4.33       | 197.92     | 1.14           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 18:51 | 4.29       | 203.54     | 1.19           |
| 2017/02/12 19:06 | 4.14       | 248.61     | 1.53           |
| 2017/02/12 19:21 | 4.12       | 249.58     | 1.55           |
| 2017/02/12 19:36 | 4.11       | 248.40     | 1.55           |
| 2017/02/12 19:51 | 4.08       | 239.44     | 1.51           |
| 2017/02/12 20:06 | 4.08       | 239.44     | 1.51           |
| 2017/02/12 20:21 | 4.08       | 204.03     | 1.28           |
| 2017/02/12 20:36 | 4.08       | 204.03     | 1.28           |
| 2017/02/12 20:51 | 4.08       | 211.04     | 1.33           |
| 2017/02/12 21:06 | 4.08       | 204.03     | 1.28           |
| 2017/02/12 21:21 | 4.08       | 204.03     | 1.28           |
| 2017/02/12 21:36 | 4.07       | 210.00     | 1.33           |
| 2017/02/12 21:51 | 4.08       | 200.35     | 1.26           |
| 2017/02/12 22:06 | 4.08       | 197.43     | 1.24           |
| 2017/02/12 22:21 | 5.32       | 192.43     | 0.83           |
| 2017/02/12 22:36 | 4.01       | 192.64     | 1.24           |
| 2017/02/12 22:51 | 3.82       | 160.35     | 1.11           |
| 2017/02/12 23:06 | 3.75       | 174.58     | 1.24           |
| 2017/02/12 23:21 | 3.65       | 181.46     | 1.34           |
| 2017/02/12 23:36 | 3.48       | 195.07     | 1.54           |
| 2017/02/12 23:51 | 3.46       | 195.07     | 1.56           |
| 2017/02/13 00:06 | 3.44       | 193.96     | 1.56           |
| 2017/02/13 00:21 | 3.23       | 175.07     | 1.54           |
| 2017/02/13 00:36 | 3.14       | 155.83     | 1.44           |
| 2017/02/13 00:51 | 2.96       | 128.33     | 1.29           |
| 2017/02/13 01:06 | 2.93       | 119.24     | 1.21           |
| 2017/02/13 01:21 | 2.72       | 105.42     | 1.20           |
| 2017/02/13 01:36 | 2.68       | 85.69      | 0.99           |
| 2017/02/13 01:51 | 2.58       | 78.12      | 0.96           |
| 2017/02/13 02:06 | 2.54       | 73.96      | 0.93           |
| 2017/02/13 02:21 | 2.46       | 70.42      | 0.93           |
| 2017/02/13 02:36 | 2.46       | 70.42      | 0.93           |
| 2017/02/13 02:51 | 2.44       | 69.86      | 0.93           |
| 2017/02/13 03:06 | 2.40       | 70.42      | 0.96           |
| 2017/02/13 03:21 | 2.40       | 70.42      | 0.96           |
| 2017/02/13 03:36 | 2.37       | 69.24      | 0.96           |
| 2017/02/13 03:51 | 2.37       | 69.44      | 0.96           |
| 2017/02/13 04:06 | 2.37       | 57.57      | 0.80           |
| 2017/02/13 04:21 | 2.36       | 52.71      | 0.74           |
| 2017/02/13 04:36 | 2.32       | 51.39      | 0.74           |
| 2017/02/13 04:51 | 2.32       | 51.60      | 0.74           |
| 2017/02/13 05:06 | 2.32       | 51.60      | 0.74           |
| 2017/02/13 05:21 | 2.36       | 58.61      | 0.82           |
| 2017/02/13 05:36 | 2.37       | 70.76      | 0.98           |
| 2017/02/13 05:51 | 2.39       | 71.39      | 0.98           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 06:06 | 2.40       | 72.01      | 0.98           |
| 2017/02/13 06:21 | 2.62       | 82.01      | 0.98           |
| 2017/02/13 06:36 | 2.82       | 91.04      | 0.98           |
| 2017/02/13 06:51 | 2.83       | 91.67      | 0.98           |
| 2017/02/13 07:06 | 2.96       | 102.50     | 1.03           |
| 2017/02/13 07:21 | 3.19       | 116.18     | 1.04           |
| 2017/02/13 07:36 | 3.40       | 127.43     | 1.04           |
| 2017/02/13 07:51 | 3.80       | 147.92     | 1.03           |
| 2017/02/13 08:06 | 4.16       | 174.31     | 1.07           |
| 2017/02/13 08:21 | 4.46       | 192.15     | 1.07           |
| 2017/02/13 08:36 | 4.46       | 192.15     | 1.07           |
| 2017/02/13 08:51 | 4.46       | 192.15     | 1.07           |
| 2017/02/13 09:06 | 4.44       | 196.53     | 1.09           |
| 2017/02/13 09:21 | 4.39       | 226.39     | 1.28           |
| 2017/02/13 09:36 | 4.23       | 215.07     | 1.28           |
| 2017/02/13 09:51 | 4.08       | 204.03     | 1.28           |
| 2017/02/13 10:06 | 4.08       | 204.03     | 1.28           |
| 2017/02/13 10:21 | 4.08       | 214.17     | 1.35           |
| 2017/02/13 10:36 | 4.07       | 213.12     | 1.35           |
| 2017/02/13 10:51 | 4.07       | 214.10     | 1.35           |
| 2017/02/13 11:06 | 3.86       | 198.47     | 1.35           |
| 2017/02/13 11:21 | 3.86       | 198.47     | 1.35           |
| 2017/02/13 11:36 | 3.83       | 227.85     | 1.57           |
| 2017/02/13 11:51 | 3.80       | 225.42     | 1.57           |
| 2017/02/13 12:06 | 3.77       | 217.64     | 1.53           |
| 2017/02/13 12:21 | 3.71       | 199.24     | 1.44           |
| 2017/02/13 12:36 | 3.71       | 199.24     | 1.44           |
| 2017/02/13 12:51 | 3.71       | 197.50     | 1.43           |
| 2017/02/13 13:06 | 3.71       | 162.71     | 1.18           |
| 2017/02/13 13:21 | 3.76       | 166.04     | 1.17           |
| 2017/02/13 13:36 | 3.77       | 160.42     | 1.13           |
| 2017/02/13 13:51 | 3.76       | 166.04     | 1.17           |
| 2017/02/13 14:06 | 3.76       | 166.04     | 1.17           |
| 2017/02/13 14:21 | 3.71       | 188.47     | 1.36           |
| 2017/02/13 14:36 | 3.65       | 184.37     | 1.36           |
| 2017/02/13 14:51 | 3.65       | 187.85     | 1.39           |
| 2017/02/13 15:06 | 3.65       | 184.37     | 1.36           |
| 2017/02/13 15:21 | 3.57       | 181.67     | 1.39           |
| 2017/02/13 15:36 | 3.52       | 163.68     | 1.27           |
| 2017/02/13 15:51 | 3.54       | 186.32     | 1.44           |
| 2017/02/13 16:06 | 3.52       | 180.76     | 1.41           |
| 2017/02/13 16:21 | 3.52       | 185.28     | 1.44           |
| 2017/02/13 16:36 | 3.52       | 185.28     | 1.44           |
| 2017/02/13 16:51 | 3.51       | 186.18     | 1.46           |
| 2017/02/13 17:06 | 3.51       | 186.18     | 1.46           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 17:21 | 3.51       | 197.50     | 1.54           |
| 2017/02/13 17:36 | 3.51       | 197.50     | 1.54           |
| 2017/02/13 17:51 | 3.52       | 173.89     | 1.35           |
| 2017/02/13 18:06 | 3.62       | 180.90     | 1.35           |
| 2017/02/13 18:21 | 3.62       | 187.64     | 1.40           |
| 2017/02/13 18:36 | 3.65       | 182.92     | 1.35           |
| 2017/02/13 18:51 | 3.65       | 182.92     | 1.35           |
| 2017/02/13 19:06 | 3.65       | 165.14     | 1.22           |
| 2017/02/13 19:21 | 3.66       | 166.11     | 1.22           |
| 2017/02/13 19:36 | 3.73       | 157.01     | 1.12           |
| 2017/02/13 19:51 | 3.73       | 138.89     | 0.99           |
| 2017/02/13 20:06 | 3.80       | 142.64     | 0.99           |
| 2017/02/13 20:21 | 3.86       | 155.28     | 1.06           |
| 2017/02/13 20:36 | 4.11       | 157.29     | 0.98           |
| 2017/02/13 20:51 | 4.65       | 187.92     | 0.98           |
| 2017/02/13 21:06 | 4.41       | 188.47     | 1.06           |
| 2017/02/13 21:21 | 5.51       | 209.58     | 0.86           |
| 2017/02/13 21:36 | 5.61       | 206.80     | 0.83           |
| 2017/02/13 21:51 | 5.51       | 209.58     | 0.86           |
| 2017/02/13 22:06 | 4.41       | 180.35     | 1.01           |
| 2017/02/13 22:21 | 4.30       | 173.89     | 1.01           |
| 2017/02/13 22:36 | 3.86       | 153.96     | 1.05           |
| 2017/02/13 22:51 | 3.86       | 161.53     | 1.10           |
| 2017/02/13 23:06 | 3.82       | 159.24     | 1.10           |
| 2017/02/13 23:21 | 3.69       | 162.43     | 1.18           |
| 2017/02/13 23:36 | 3.55       | 193.96     | 1.49           |
| 2017/02/13 23:51 | 3.50       | 189.58     | 1.49           |
| 2017/02/14 00:06 | 3.39       | 180.90     | 1.49           |
| 2017/02/14 00:21 | 3.30       | 162.29     | 1.39           |
| 2017/02/14 00:36 | 3.04       | 95.07      | 0.92           |
| 2017/02/14 00:51 | 2.86       | 86.94      | 0.92           |
| 2017/02/14 01:06 | 2.86       | 86.94      | 0.92           |
| 2017/02/14 01:21 | 2.80       | 87.57      | 0.95           |
| 2017/02/14 01:36 | 2.79       | 86.94      | 0.95           |
| 2017/02/14 01:51 | 2.61       | 78.82      | 0.95           |
| 2017/02/14 02:06 | 2.57       | 77.01      | 0.95           |
| 2017/02/14 02:21 | 2.57       | 77.01      | 0.95           |
| 2017/02/14 02:36 | 2.53       | 75.07      | 0.95           |
| 2017/02/14 02:51 | 2.57       | 76.87      | 0.95           |
| 2017/02/14 03:06 | 2.47       | 70.76      | 0.92           |
| 2017/02/14 03:21 | 2.32       | 64.44      | 0.92           |
| 2017/02/14 03:36 | 2.29       | 62.99      | 0.92           |
| 2017/02/14 03:51 | 2.25       | 61.32      | 0.92           |
| 2017/02/14 04:06 | 2.19       | 59.10      | 0.92           |
| 2017/02/14 04:21 | 2.19       | 53.82      | 0.84           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 04:36 | 2.16       | 52.78      | 0.84           |
| 2017/02/14 04:51 | 2.11       | 47.29      | 0.78           |
| 2017/02/14 05:06 | 2.11       | 47.29      | 0.78           |
| 2017/02/14 05:21 | 2.16       | 52.78      | 0.84           |
| 2017/02/14 05:36 | 2.26       | 62.36      | 0.93           |
| 2017/02/14 05:51 | 2.41       | 68.68      | 0.93           |
| 2017/02/14 06:06 | 2.47       | 73.68      | 0.96           |
| 2017/02/14 06:21 | 2.47       | 73.68      | 0.96           |
| 2017/02/14 06:36 | 2.76       | 95.00      | 1.05           |
| 2017/02/14 06:51 | 3.19       | 107.22     | 0.96           |
| 2017/02/14 07:06 | 3.36       | 138.12     | 1.15           |
| 2017/02/14 07:21 | 3.68       | 164.72     | 1.20           |
| 2017/02/14 07:36 | 3.68       | 164.72     | 1.20           |
| 2017/02/14 07:51 | 3.90       | 199.30     | 1.34           |
| 2017/02/14 08:06 | 4.19       | 221.11     | 1.34           |
| 2017/02/14 08:21 | 4.36       | 242.99     | 1.39           |
| 2017/02/14 08:36 | 4.36       | 253.61     | 1.45           |
| 2017/02/14 08:51 | 4.40       | 250.90     | 1.42           |
| 2017/02/14 09:06 | 4.40       | 268.19     | 1.51           |
| 2017/02/14 09:21 | 4.34       | 263.33     | 1.51           |
| 2017/02/14 09:36 | 4.34       | 246.39     | 1.42           |
| 2017/02/14 09:51 | 4.27       | 240.69     | 1.42           |
| 2017/02/14 10:06 | 4.22       | 200.83     | 1.20           |
| 2017/02/14 10:21 | 3.90       | 179.30     | 1.20           |
| 2017/02/14 10:36 | 3.90       | 179.30     | 1.20           |
| 2017/02/14 10:51 | 3.90       | 196.32     | 1.32           |
| 2017/02/14 11:06 | 3.91       | 197.36     | 1.32           |
| 2017/02/14 11:21 | 4.04       | 213.68     | 1.36           |
| 2017/02/14 11:36 | 4.12       | 212.71     | 1.32           |
| 2017/02/14 11:51 | 4.26       | 223.05     | 1.32           |
| 2017/02/14 12:06 | 4.26       | 230.83     | 1.36           |
| 2017/02/14 12:21 | 4.26       | 266.18     | 1.57           |
| 2017/02/14 12:36 | 4.04       | 157.78     | 1.01           |
| 2017/02/14 12:51 | 4.00       | 247.22     | 1.60           |
| 2017/02/14 13:06 | 3.98       | 245.97     | 1.60           |
| 2017/02/14 13:21 | 3.98       | 211.80     | 1.38           |
| 2017/02/14 13:36 | 3.98       | 175.21     | 1.14           |
| 2017/02/14 13:51 | 3.98       | 175.21     | 1.14           |
| 2017/02/14 14:06 | 3.89       | 169.10     | 1.14           |
| 2017/02/14 14:21 | 3.89       | 167.08     | 1.13           |
| 2017/02/14 14:36 | 3.90       | 167.92     | 1.13           |
| 2017/02/14 14:51 | 3.84       | 199.86     | 1.37           |
| 2017/02/14 15:06 | 3.84       | 199.86     | 1.37           |
| 2017/02/14 15:21 | 3.84       | 202.29     | 1.39           |
| 2017/02/14 15:36 | 3.83       | 207.71     | 1.43           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 15:51 | 3.79       | 211.80     | 1.48           |
| 2017/02/14 16:06 | 3.77       | 210.69     | 1.48           |
| 2017/02/14 16:21 | 3.77       | 218.05     | 1.54           |
| 2017/02/14 16:36 | 3.79       | 211.80     | 1.48           |
| 2017/02/14 16:51 | 3.79       | 201.18     | 1.41           |
| 2017/02/14 17:06 | 3.80       | 193.47     | 1.35           |
| 2017/02/14 17:21 | 3.83       | 175.35     | 1.21           |
| 2017/02/14 17:36 | 3.91       | 161.04     | 1.08           |
| 2017/02/14 17:51 | 3.97       | 164.31     | 1.08           |
| 2017/02/14 18:06 | 4.33       | 186.32     | 1.08           |
| 2017/02/14 18:21 | 4.33       | 186.32     | 1.08           |
| 2017/02/14 18:36 | 4.33       | 202.15     | 1.17           |
| 2017/02/14 18:51 | 4.33       | 202.15     | 1.17           |
| 2017/02/14 19:06 | 3.89       | 206.87     | 1.40           |
| 2017/02/14 19:21 | 3.89       | 206.87     | 1.40           |
| 2017/02/14 19:36 | 3.90       | 210.42     | 1.41           |
| 2017/02/14 19:51 | 3.90       | 175.62     | 1.18           |
| 2017/02/14 20:06 | 3.90       | 210.21     | 1.41           |
| 2017/02/14 20:21 | 4.04       | 213.40     | 1.36           |
| 2017/02/14 20:36 | 4.07       | 223.26     | 1.41           |
| 2017/02/14 20:51 | 4.07       | 223.26     | 1.41           |
| 2017/02/14 21:06 | 4.04       | 242.85     | 1.55           |
| 2017/02/14 21:21 | 4.00       | 239.24     | 1.55           |
| 2017/02/14 21:36 | 3.98       | 243.68     | 1.59           |
| 2017/02/14 21:51 | 3.93       | 238.75     | 1.59           |
| 2017/02/14 22:06 | 3.91       | 228.40     | 1.53           |
| 2017/02/14 22:21 | 3.87       | 208.96     | 1.42           |
| 2017/02/14 22:36 | 3.79       | 195.69     | 1.37           |
| 2017/02/14 22:51 | 3.71       | 189.51     | 1.37           |
| 2017/02/14 23:06 | 3.69       | 188.47     | 1.37           |
| 2017/02/14 23:21 | 3.66       | 172.92     | 1.27           |
| 2017/02/14 23:36 | 3.62       | 183.33     | 1.37           |
| 2017/02/14 23:51 | 3.47       | 159.79     | 1.27           |
| 2017/02/15 00:06 | 3.47       | 150.21     | 1.19           |
| 2017/02/15 00:21 | 3.37       | 153.33     | 1.27           |
| 2017/02/15 00:36 | 3.29       | 152.64     | 1.31           |
| 2017/02/15 00:51 | 3.12       | 114.86     | 1.07           |
| 2017/02/15 01:06 | 3.09       | 109.93     | 1.03           |
| 2017/02/15 01:21 | 2.94       | 102.15     | 1.03           |
| 2017/02/15 01:36 | 2.69       | 89.72      | 1.03           |
| 2017/02/15 01:51 | 2.58       | 81.32      | 1.00           |
| 2017/02/15 02:06 | 2.55       | 82.85      | 1.03           |
| 2017/02/15 02:21 | 2.51       | 78.12      | 1.00           |
| 2017/02/15 02:36 | 2.47       | 73.54      | 0.96           |
| 2017/02/15 02:51 | 2.46       | 65.42      | 0.86           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 03:06 | 2.46       | 72.99      | 0.96           |
| 2017/02/15 03:21 | 2.43       | 71.74      | 0.96           |
| 2017/02/15 03:36 | 2.41       | 71.18      | 0.96           |
| 2017/02/15 03:51 | 2.33       | 70.28      | 1.00           |
| 2017/02/15 04:06 | 2.29       | 68.40      | 1.00           |
| 2017/02/15 04:21 | 2.29       | 46.67      | 0.68           |
| 2017/02/15 04:36 | 2.39       | 49.65      | 0.68           |
| 2017/02/15 04:51 | 2.32       | 63.68      | 0.91           |
| 2017/02/15 05:06 | 2.39       | 66.53      | 0.91           |
| 2017/02/15 05:21 | 2.50       | 73.82      | 0.95           |
| 2017/02/15 05:36 | 2.46       | 72.01      | 0.95           |
| 2017/02/15 05:51 | 2.50       | 71.11      | 0.91           |
| 2017/02/15 06:06 | 2.51       | 86.74      | 1.11           |
| 2017/02/15 06:21 | 2.61       | 88.19      | 1.06           |
| 2017/02/15 06:36 | 2.82       | 92.43      | 1.00           |
| 2017/02/15 06:51 | 2.83       | 93.12      | 1.00           |
| 2017/02/15 07:06 | 3.22       | 112.36     | 1.00           |
| 2017/02/15 07:21 | 3.39       | 120.90     | 1.00           |
| 2017/02/15 07:36 | 3.76       | 140.83     | 1.00           |
| 2017/02/15 07:51 | 4.00       | 153.96     | 1.00           |
| 2017/02/15 08:06 | 4.33       | 200.83     | 1.16           |
| 2017/02/15 08:21 | 4.36       | 263.47     | 1.51           |
| 2017/02/15 08:36 | 4.39       | 265.90     | 1.51           |
| 2017/02/15 08:51 | 4.39       | 265.90     | 1.51           |
| 2017/02/15 09:06 | 4.39       | 259.72     | 1.47           |
| 2017/02/15 09:21 | 4.32       | 253.82     | 1.47           |
| 2017/02/15 09:36 | 4.07       | 211.18     | 1.34           |
| 2017/02/15 09:51 | 4.07       | 232.92     | 1.47           |
| 2017/02/15 10:06 | 4.05       | 189.03     | 1.20           |
| 2017/02/15 10:21 | 3.97       | 229.86     | 1.50           |
| 2017/02/15 10:36 | 3.87       | 213.19     | 1.45           |
| 2017/02/15 10:51 | 3.87       | 213.19     | 1.45           |
| 2017/02/15 11:06 | 3.84       | 210.97     | 1.45           |
| 2017/02/15 11:21 | 3.83       | 217.64     | 1.50           |
| 2017/02/15 11:36 | 3.79       | 206.60     | 1.45           |
| 2017/02/15 11:51 | 3.79       | 190.28     | 1.33           |
| 2017/02/15 12:06 | 3.76       | 202.22     | 1.43           |
| 2017/02/15 12:21 | 3.79       | 204.44     | 1.43           |
| 2017/02/15 12:36 | 3.76       | 188.26     | 1.33           |
| 2017/02/15 12:51 | 3.72       | 186.53     | 1.34           |
| 2017/02/15 13:06 | 3.69       | 196.87     | 1.43           |
| 2017/02/15 13:21 | 3.69       | 184.51     | 1.34           |
| 2017/02/15 13:36 | 3.59       | 177.50     | 1.34           |
| 2017/02/15 13:51 | 3.55       | 178.68     | 1.37           |
| 2017/02/15 14:06 | 3.59       | 181.74     | 1.37           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 14:21 | 3.84       | 152.01     | 1.04           |
| 2017/02/15 14:36 | 3.54       | 146.25     | 1.13           |
| 2017/02/15 14:51 | 3.54       | 146.25     | 1.13           |
| 2017/02/15 15:06 | 3.51       | 133.26     | 1.04           |
| 2017/02/15 15:21 | 3.51       | 117.08     | 0.92           |
| 2017/02/15 15:36 | 3.51       | 144.58     | 1.13           |
| 2017/02/15 15:51 | 3.51       | 147.15     | 1.15           |
| 2017/02/15 16:06 | 3.51       | 147.15     | 1.15           |
| 2017/02/15 16:21 | 3.51       | 153.82     | 1.20           |
| 2017/02/15 16:36 | 3.41       | 147.64     | 1.20           |
| 2017/02/15 16:51 | 3.41       | 147.64     | 1.20           |
| 2017/02/15 17:06 | 3.41       | 171.46     | 1.40           |
| 2017/02/15 17:21 | 3.41       | 171.46     | 1.40           |
| 2017/02/15 17:36 | 3.46       | 164.03     | 1.31           |
| 2017/02/15 17:51 | 3.50       | 180.28     | 1.42           |
| 2017/02/15 18:06 | 3.50       | 166.87     | 1.31           |
| 2017/02/15 18:21 | 3.58       | 141.53     | 1.08           |
| 2017/02/15 18:36 | 3.58       | 162.85     | 1.24           |
| 2017/02/15 18:51 | 3.58       | 162.85     | 1.24           |
| 2017/02/15 19:06 | 3.58       | 162.85     | 1.24           |
| 2017/02/15 19:21 | 3.68       | 169.31     | 1.24           |
| 2017/02/15 19:36 | 3.69       | 180.28     | 1.31           |
| 2017/02/15 19:51 | 3.72       | 182.50     | 1.31           |
| 2017/02/15 20:06 | 3.84       | 191.18     | 1.31           |
| 2017/02/15 20:21 | 3.93       | 178.82     | 1.19           |
| 2017/02/15 20:36 | 4.73       | 176.25     | 0.90           |
| 2017/02/15 20:51 | 4.73       | 176.25     | 0.90           |
| 2017/02/15 21:06 | 4.73       | 176.25     | 0.90           |
| 2017/02/15 21:21 | 4.00       | 160.35     | 1.04           |
| 2017/02/15 21:36 | 3.94       | 191.32     | 1.26           |
| 2017/02/15 21:51 | 3.93       | 208.47     | 1.39           |
| 2017/02/15 22:06 | 3.91       | 224.51     | 1.50           |
| 2017/02/15 22:21 | 3.83       | 205.90     | 1.42           |
| 2017/02/15 22:36 | 3.83       | 205.90     | 1.42           |
| 2017/02/15 22:51 | 3.80       | 198.96     | 1.39           |
| 2017/02/15 23:06 | 3.80       | 203.75     | 1.42           |
| 2017/02/15 23:21 | 3.83       | 199.51     | 1.37           |
| 2017/02/15 23:36 | 3.72       | 191.18     | 1.37           |
| 2017/02/15 23:51 | 3.61       | 171.60     | 1.29           |
| 2017/02/16 00:06 | 3.22       | 155.00     | 1.37           |
| 2017/02/16 00:21 | 3.19       | 151.18     | 1.36           |
| 2017/02/16 00:36 | 3.07       | 142.64     | 1.36           |
| 2017/02/16 00:51 | 3.07       | 142.64     | 1.36           |
| 2017/02/16 01:06 | 3.04       | 140.76     | 1.36           |
| 2017/02/16 01:21 | 2.93       | 113.40     | 1.16           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 01:36 | 2.68       | 96.25      | 1.12           |
| 2017/02/16 01:51 | 2.59       | 91.87      | 1.12           |
| 2017/02/16 02:06 | 2.59       | 86.39      | 1.05           |
| 2017/02/16 02:21 | 2.43       | 67.99      | 0.91           |
| 2017/02/16 02:36 | 2.43       | 65.62      | 0.88           |
| 2017/02/16 02:51 | 2.29       | 60.14      | 0.88           |
| 2017/02/16 03:06 | 2.22       | 57.50      | 0.88           |
| 2017/02/16 03:21 | 2.22       | 53.54      | 0.82           |
| 2017/02/16 03:36 | 2.21       | 52.99      | 0.82           |
| 2017/02/16 03:51 | 2.21       | 52.99      | 0.82           |
| 2017/02/16 04:06 | 2.21       | 52.99      | 0.82           |
| 2017/02/16 04:21 | 2.19       | 62.43      | 0.97           |
| 2017/02/16 04:36 | 2.19       | 62.92      | 0.98           |
| 2017/02/16 04:51 | 2.19       | 65.28      | 1.02           |
| 2017/02/16 05:06 | 2.19       | 65.28      | 1.02           |
| 2017/02/16 05:21 | 2.19       | 65.28      | 1.02           |
| 2017/02/16 05:36 | 2.22       | 66.46      | 1.02           |
| 2017/02/16 05:51 | 2.32       | 59.10      | 0.85           |
| 2017/02/16 06:06 | 2.57       | 66.46      | 0.82           |
| 2017/02/16 06:21 | 2.73       | 72.92      | 0.82           |
| 2017/02/16 06:36 | 2.86       | 77.85      | 0.82           |
| 2017/02/16 06:51 | 2.96       | 92.50      | 0.93           |
| 2017/02/16 07:06 | 3.16       | 102.15     | 0.93           |
| 2017/02/16 07:21 | 3.34       | 115.62     | 0.97           |
| 2017/02/16 07:36 | 3.82       | 146.87     | 1.02           |
| 2017/02/16 07:51 | 3.90       | 157.50     | 1.06           |
| 2017/02/16 08:06 | 4.00       | 170.21     | 1.10           |
| 2017/02/16 08:21 | 4.00       | 170.21     | 1.10           |
| 2017/02/16 08:36 | 4.11       | 224.86     | 1.40           |
| 2017/02/16 08:51 | 4.32       | 241.46     | 1.40           |
| 2017/02/16 09:06 | 4.32       | 196.74     | 1.14           |
| 2017/02/16 09:21 | 4.32       | 194.93     | 1.13           |
| 2017/02/16 09:36 | 4.32       | 194.93     | 1.13           |
| 2017/02/16 09:51 | 4.23       | 189.51     | 1.13           |
| 2017/02/16 10:06 | 4.01       | 174.17     | 1.12           |
| 2017/02/16 10:21 | 3.96       | 171.87     | 1.13           |
| 2017/02/16 10:36 | 3.96       | 214.10     | 1.41           |
| 2017/02/16 10:51 | 3.89       | 217.92     | 1.47           |
| 2017/02/16 11:06 | 3.89       | 233.75     | 1.58           |
| 2017/02/16 11:21 | 3.89       | 233.75     | 1.58           |
| 2017/02/16 11:36 | 3.79       | 201.18     | 1.41           |
| 2017/02/16 11:51 | 3.79       | 211.80     | 1.48           |
| 2017/02/16 12:06 | 3.77       | 201.39     | 1.42           |
| 2017/02/16 12:21 | 3.76       | 178.54     | 1.26           |
| 2017/02/16 12:36 | 3.71       | 174.72     | 1.26           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 12:51 | 3.69       | 173.75     | 1.26           |
| 2017/02/16 13:06 | 3.69       | 173.75     | 1.26           |
| 2017/02/16 13:21 | 3.68       | 172.85     | 1.26           |
| 2017/02/16 13:36 | 3.65       | 197.99     | 1.46           |
| 2017/02/16 13:51 | 3.68       | 200.21     | 1.46           |
| 2017/02/16 14:06 | 3.68       | 200.21     | 1.46           |
| 2017/02/16 14:21 | 3.55       | 139.58     | 1.07           |
| 2017/02/16 14:36 | 3.55       | 139.58     | 1.07           |
| 2017/02/16 14:51 | 3.52       | 137.99     | 1.07           |
| 2017/02/16 15:06 | 3.52       | 143.47     | 1.12           |
| 2017/02/16 15:21 | 3.52       | 143.47     | 1.12           |
| 2017/02/16 15:36 | 3.52       | 143.47     | 1.12           |
| 2017/02/16 15:51 | 3.52       | 135.42     | 1.05           |
| 2017/02/16 16:06 | 3.44       | 117.57     | 0.95           |
| 2017/02/16 16:21 | 3.44       | 117.57     | 0.95           |
| 2017/02/16 16:36 | 3.44       | 130.83     | 1.05           |
| 2017/02/16 16:51 | 3.44       | 147.50     | 1.19           |
| 2017/02/16 17:06 | 3.46       | 156.74     | 1.25           |
| 2017/02/16 17:21 | 3.57       | 171.11     | 1.31           |
| 2017/02/16 17:36 | 3.58       | 172.08     | 1.31           |
| 2017/02/16 17:51 | 3.57       | 180.49     | 1.38           |
| 2017/02/16 18:06 | 3.58       | 181.53     | 1.38           |
| 2017/02/16 18:21 | 3.58       | 181.53     | 1.38           |
| 2017/02/16 18:36 | 3.58       | 160.21     | 1.22           |
| 2017/02/16 18:51 | 3.58       | 160.21     | 1.22           |
| 2017/02/16 19:06 | 3.79       | 173.89     | 1.22           |
| 2017/02/16 19:21 | 3.79       | 173.89     | 1.22           |
| 2017/02/16 19:36 | 3.80       | 192.78     | 1.34           |
| 2017/02/16 19:51 | 3.87       | 197.92     | 1.34           |
| 2017/02/16 20:06 | 3.87       | 197.92     | 1.34           |
| 2017/02/16 20:21 | 3.93       | 205.00     | 1.36           |
| 2017/02/16 20:36 | 3.93       | 183.89     | 1.22           |
| 2017/02/16 20:51 | 3.93       | 183.89     | 1.22           |
| 2017/02/16 21:06 | 3.93       | 205.00     | 1.36           |
| 2017/02/16 21:21 | 3.79       | 202.43     | 1.42           |
| 2017/02/16 21:36 | 3.79       | 202.43     | 1.42           |
| 2017/02/16 21:51 | 3.79       | 202.43     | 1.42           |
| 2017/02/16 22:06 | 3.79       | 206.18     | 1.44           |
| 2017/02/16 22:21 | 3.79       | 179.79     | 1.26           |
| 2017/02/16 22:36 | 3.79       | 172.85     | 1.21           |
| 2017/02/16 22:51 | 3.68       | 165.56     | 1.21           |
| 2017/02/16 23:06 | 3.68       | 197.50     | 1.44           |
| 2017/02/16 23:21 | 3.59       | 174.86     | 1.32           |
| 2017/02/16 23:36 | 3.51       | 199.65     | 1.56           |
| 2017/02/16 23:51 | 3.51       | 199.65     | 1.56           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/17 00:06 | 3.51       | 169.03     | 1.32           |
| 2017/02/17 00:21 | 3.30       | 152.29     | 1.30           |
| 2017/02/17 00:36 | 3.23       | 142.50     | 1.26           |
| 2017/02/17 00:51 | 3.23       | 142.50     | 1.26           |
| 2017/02/17 01:06 | 3.14       | 133.47     | 1.23           |
| 2017/02/17 01:21 | 3.07       | 129.17     | 1.23           |
| 2017/02/17 01:36 | 2.75       | 95.56      | 1.07           |
| 2017/02/17 01:51 | 2.61       | 81.87      | 0.99           |
| 2017/02/17 02:06 | 2.61       | 81.87      | 0.99           |
| 2017/02/17 02:21 | 2.61       | 71.46      | 0.86           |
| 2017/02/17 02:36 | 2.54       | 68.68      | 0.86           |
| 2017/02/17 02:51 | 2.39       | 62.71      | 0.86           |
| 2017/02/17 03:06 | 2.36       | 60.28      | 0.84           |
| 2017/02/17 03:21 | 2.36       | 60.28      | 0.84           |
| 2017/02/17 03:36 | 2.30       | 58.19      | 0.84           |
| 2017/02/17 03:51 | 2.28       | 57.64      | 0.85           |
| 2017/02/17 04:06 | 2.28       | 57.64      | 0.85           |
| 2017/02/17 04:21 | 2.21       | 62.01      | 0.96           |
| 2017/02/17 04:36 | 2.19       | 54.58      | 0.85           |
| 2017/02/17 04:51 | 2.19       | 54.58      | 0.85           |
| 2017/02/17 05:06 | 2.19       | 52.71      | 0.82           |
| 2017/02/17 05:21 | 2.19       | 49.79      | 0.78           |
| 2017/02/17 05:36 | 2.19       | 49.79      | 0.78           |
| 2017/02/17 05:51 | 2.28       | 50.56      | 0.74           |
| 2017/02/17 06:06 | 2.46       | 56.53      | 0.74           |
| 2017/02/17 06:21 | 2.58       | 64.65      | 0.79           |
| 2017/02/17 06:36 | 2.68       | 74.31      | 0.86           |
| 2017/02/17 06:51 | 2.68       | 99.17      | 1.15           |
| 2017/02/17 07:06 | 2.93       | 112.99     | 1.15           |
| 2017/02/17 07:21 | 3.12       | 111.74     | 1.04           |
| 2017/02/17 07:36 | 3.39       | 130.35     | 1.07           |
| 2017/02/17 07:51 | 3.59       | 137.08     | 1.04           |
| 2017/02/17 08:06 | 4.02       | 145.56     | 0.93           |
| 2017/02/17 08:21 | 4.12       | 150.62     | 0.93           |
| 2017/02/17 08:36 | 4.36       | 187.78     | 1.07           |
| 2017/02/17 08:51 | 4.39       | 214.24     | 1.21           |
| 2017/02/17 09:06 | 4.39       | 248.12     | 1.41           |
| 2017/02/17 09:21 | 4.39       | 258.40     | 1.46           |
| 2017/02/17 09:36 | 4.50       | 294.65     | 1.61           |



# Site Report

02-16-2017

**Confidential Proprietary Information**

David Evans

~101 27th St

2017.01-02 Site 7 27th St MH

Manhole No. 0021

Access:

Manhole is in westbound lane at intersection with Hermosa Av.

System Type:

Sanitary ☒

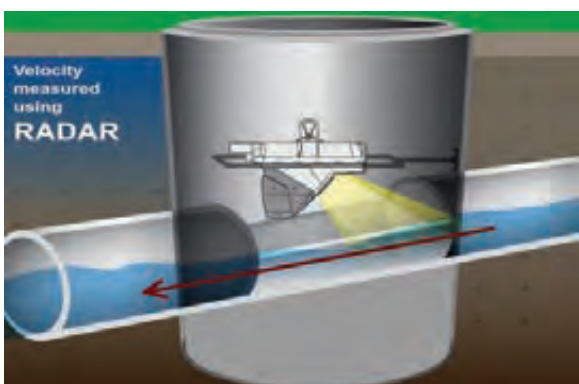
Storm ☐

Install Date: 1/18/2017

Map



Technology



Sewer Plan



## Flow Meter

Meter Depth: 39"

Map Coordinates: 33.872874, -118.405529

Moderate open channel hydraulics

| Avg Velocity | Avg Measured Level | Multiplier |
|--------------|--------------------|------------|
| 5.75 fps     | 1.66"              | 1          |

## Gas

| O2   | H2S | CO | LEL |
|------|-----|----|-----|
| 20.9 | 0   | 0  | 0   |

## Notes

\*

## Traffic Safety

Used cones, signs, & a flagger.

## Land Use

| Residential | Commercial | Industrial | Trunk |
|-------------|------------|------------|-------|
| X           |            |            |       |

Manhole Depth 54"

Monitored Pipe Size 8"

Inner Pipe Size (In/Out) 8"/8"

Pipe Shape Round

Pipe Condition Fair

Manhole Material Brick

Silt 0

Velocity Profile Data \*

Velocity Profile Taken 0.4 2-D

Sensor Offset 14.51"

Sensor Dist. to Crown 6.51"

Sensor Direction Upstream

Flow Heading South





## Meter Site Document

David Evans

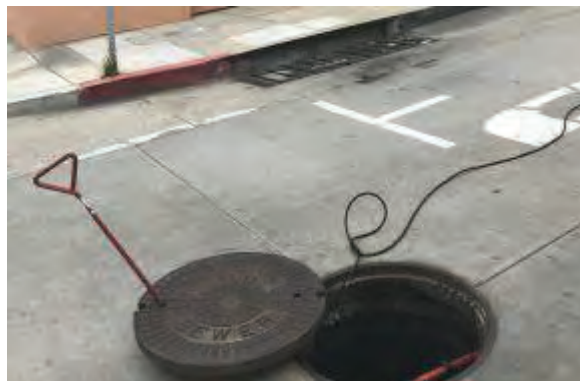
2017.01-02 Site 7 27th St MH

~101 27th St

Site



Manhole Condition



Installation Process



Installed



MH 0021





Utility Systems Science and Software

Report Date: 02/20/2017  
Customer: David Evans  
Group: Hermosa Beach  
SiteID: 2640

### Statistics for 2017.01-02 Site 7 27th St MH: 01/19/2017 thru 02/16/2017

|              | Flow (GPM)    |               |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |             |             |                  |             |
|--------------|---------------|---------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|-------------|-------------|------------------|-------------|
| Date         | Avg           | Max           | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max         | Min         | Total Gal        | Rain        |
| 1/19/17      | 157.71        | 217.43        | 110.76       | 0.23        | 0.31        | 0.16        | 5.79           | 6.80        | 4.23        | 1.83           | 2.07        | 1.71        | 227,102          | 0.76        |
| 1/20/17      | 177.43        | 419.51        | 101.32       | 0.26        | 0.60        | 0.15        | 6.00           | 8.75        | 4.08        | 1.90           | 2.76        | 1.64        | 255,502          | 1.29        |
| 1/21/17      | 152.44        | 221.80        | 99.44        | 0.22        | 0.32        | 0.14        | 5.56           | 6.98        | 3.72        | 1.84           | 2.05        | 1.66        | 219,513          |             |
| 1/22/17      | 193.44        | 509.37        | 103.47       | 0.28        | 0.73        | 0.15        | 4.97           | 8.73        | 1.13        | 2.80           | 9.09        | 1.66        | 278,560          | 3.72        |
| <b>Week:</b> | <b>170.26</b> | <b>509.37</b> | <b>99.44</b> | <b>0.25</b> | <b>0.73</b> | <b>0.14</b> | <b>5.58</b>    | <b>8.75</b> | <b>1.13</b> | <b>2.09</b>    | <b>9.09</b> | <b>1.64</b> | <b>980,677</b>   | <b>5.77</b> |
| 1/23/17      | 203.87        | 258.82        | 129.93       | 0.29        | 0.37        | 0.19        | 3.99           | 5.08        | 3.30        | 2.90           | 3.33        | 2.12        | 293,574          | 0.13        |
| 1/24/17      | 211.98        | 250.00        | 167.29       | 0.31        | 0.36        | 0.24        | 4.04           | 4.81        | 3.14        | 2.97           | 3.43        | 2.50        | 305,250          |             |
| 1/25/17      | 176.96        | 232.36        | 114.03       | 0.25        | 0.33        | 0.16        | 4.01           | 4.56        | 3.51        | 2.60           | 3.50        | 1.96        | 254,828          |             |
| 1/26/17      | 129.92        | 255.62        | 96.25        | 0.19        | 0.37        | 0.14        | 3.90           | 5.29        | 3.41        | 2.11           | 2.78        | 1.80        | 187,090          |             |
| 1/27/17      | 139.26        | 227.71        | 99.37        | 0.20        | 0.33        | 0.14        | 3.96           | 5.02        | 3.36        | 2.20           | 2.65        | 1.79        | 200,536          |             |
| 1/28/17      | 154.80        | 231.74        | 104.10       | 0.22        | 0.33        | 0.15        | 4.08           | 4.82        | 3.50        | 2.31           | 2.90        | 1.89        | 222,912          |             |
| 1/29/17      | 183.17        | 228.19        | 124.31       | 0.26        | 0.33        | 0.18        | 4.12           | 5.07        | 3.33        | 2.63           | 3.18        | 2.00        | 263,763          |             |
| <b>Week:</b> | <b>171.42</b> | <b>258.82</b> | <b>96.25</b> | <b>0.25</b> | <b>0.37</b> | <b>0.14</b> | <b>4.01</b>    | <b>5.29</b> | <b>3.14</b> | <b>2.53</b>    | <b>3.50</b> | <b>1.79</b> | <b>1,727,953</b> | <b>0.13</b> |
| 1/30/17      | 126.76        | 217.99        | 74.44        | 0.18        | 0.31        | 0.11        | 3.99           | 4.66        | 3.19        | 2.02           | 2.80        | 1.65        | 182,541          |             |
| 1/31/17      | 135.30        | 220.62        | 29.44        | 0.19        | 0.32        | 0.04        | 4.07           | 4.83        | 3.04        | 2.05           | 2.73        | 0.90        | 194,838          |             |
| 2/1/17       | 169.13        | 239.17        | 107.50       | 0.24        | 0.34        | 0.15        | 4.08           | 4.99        | 3.23        | 2.47           | 2.78        | 2.08        | 243,544          |             |
| 2/2/17       | 163.72        | 247.36        | 85.62        | 0.24        | 0.36        | 0.12        | 4.06           | 5.05        | 3.10        | 2.42           | 3.12        | 1.86        | 235,757          |             |



|                | Flow (GPM)    |               |              | Flow (MGD)  |             |             | Velocity (FPS) |             |             | Level (inches) |             |             |                  |             |
|----------------|---------------|---------------|--------------|-------------|-------------|-------------|----------------|-------------|-------------|----------------|-------------|-------------|------------------|-------------|
| Date           | Avg           | Max           | Min          | Avg         | Max         | Min         | Avg            | Max         | Min         | Avg            | Max         | Min         | Total Gal        | Rain        |
| 2/3/17         | 167.66        | 270.90        | 100.62       | 0.24        | 0.39        | 0.14        | 4.20           | 5.05        | 3.43        | 2.40           | 3.01        | 1.93        | 241,432          | 0.39        |
| 2/4/17         | 177.89        | 253.26        | 118.61       | 0.26        | 0.36        | 0.17        | 4.23           | 5.07        | 3.74        | 2.49           | 2.97        | 1.98        | 256,165          |             |
| 2/5/17         | 171.43        | 262.15        | 98.33        | 0.25        | 0.38        | 0.14        | 4.19           | 5.12        | 3.70        | 2.43           | 3.30        | 1.79        | 246,854          |             |
| <b>Week:</b>   | <b>158.84</b> | <b>270.90</b> | <b>29.44</b> | <b>0.23</b> | <b>0.39</b> | <b>0.04</b> | <b>4.12</b>    | <b>5.12</b> | <b>3.04</b> | <b>2.33</b>    | <b>3.30</b> | <b>0.90</b> | <b>1,601,130</b> | <b>0.39</b> |
| 2/6/17         | 248.29        | 418.47        | 110.62       | 0.36        | 0.60        | 0.16        | 4.44           | 6.30        | 3.57        | 3.06           | 3.55        | 1.93        | 357,543          | 1.43        |
| 2/7/17         | 175.35        | 273.68        | 100.69       | 0.25        | 0.39        | 0.15        | 4.89           | 6.69        | 3.71        | 2.32           | 3.46        | 1.34        | 252,507          | 0.64        |
| 2/8/17         | 95.97         | 134.24        | 51.18        | 0.14        | 0.19        | 0.07        | 5.54           | 6.44        | 3.89        | 1.32           | 1.53        | 1.11        | 138,194          | 0.07        |
| 2/9/17         | 104.13        | 157.92        | 75.07        | 0.15        | 0.23        | 0.11        | 5.72           | 7.02        | 4.32        | 1.38           | 1.61        | 1.26        | 149,941          |             |
| 2/10/17        | 105.81        | 157.01        | 52.36        | 0.15        | 0.23        | 0.08        | 5.72           | 6.99        | 3.85        | 1.38           | 1.61        | 1.12        | 152,362          | 0.33        |
| 2/11/17        | 100.30        | 158.82        | 48.40        | 0.14        | 0.23        | 0.07        | 5.65           | 6.98        | 3.62        | 1.34           | 1.62        | 1.08        | 144,427          | 0.01        |
| 2/12/17        | 104.44        | 173.68        | 60.76        | 0.15        | 0.25        | 0.09        | 5.74           | 7.36        | 3.83        | 1.36           | 1.68        | 1.18        | 150,396          |             |
| <b>Week:</b>   | <b>133.47</b> | <b>418.47</b> | <b>48.40</b> | <b>0.19</b> | <b>0.60</b> | <b>0.07</b> | <b>5.39</b>    | <b>7.36</b> | <b>3.57</b> | <b>1.74</b>    | <b>3.55</b> | <b>1.08</b> | <b>1,345,370</b> | <b>2.48</b> |
| 2/13/17        | 100.86        | 164.51        | 48.26        | 0.15        | 0.24        | 0.07        | 5.72           | 7.14        | 3.67        | 1.33           | 1.64        | 1.08        | 145,243          |             |
| 2/14/17        | 107.74        | 174.79        | 60.69        | 0.16        | 0.25        | 0.09        | 5.87           | 7.23        | 4.44        | 1.38           | 1.69        | 1.11        | 155,147          |             |
| 2/15/17        | 96.13         | 155.35        | 48.96        | 0.14        | 0.22        | 0.07        | 5.60           | 7.00        | 3.79        | 1.31           | 1.59        | 1.07        | 138,420          |             |
| 2/16/17        | 93.16         | 157.50        | 52.36        | 0.13        | 0.23        | 0.08        | 5.55           | 6.92        | 4.14        | 1.29           | 1.62        | 1.07        | 134,150          |             |
| <b>Week:</b>   | <b>99.47</b>  | <b>174.79</b> | <b>48.26</b> | <b>0.14</b> | <b>0.25</b> | <b>0.07</b> | <b>5.69</b>    | <b>7.23</b> | <b>3.67</b> | <b>1.32</b>    | <b>1.69</b> | <b>1.07</b> | <b>572,961</b>   |             |
| <b>Totals:</b> | <b>149.14</b> | <b>509.37</b> | <b>29.44</b> | <b>0.21</b> | <b>0.73</b> | <b>0.04</b> | <b>4.82</b>    | <b>8.75</b> | <b>1.13</b> | <b>2.06</b>    | <b>9.09</b> | <b>0.90</b> | <b>6,228,091</b> | <b>8.77</b> |



**Data for 2017.01-02 Site 7 27th St MH:  
1/18/2017 thru 2/17/2017**

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/18 14:51 | 1.57       | 117.78     | 5.44           |
| 2017/01/18 15:06 | 1.86       | 181.74     | 6.58           |
| 2017/01/18 15:21 | 1.80       | 151.11     | 5.71           |
| 2017/01/18 15:36 | 1.73       | 146.11     | 5.84           |
| 2017/01/18 15:51 | 1.69       | 134.79     | 5.58           |
| 2017/01/18 16:06 | 1.86       | 176.18     | 6.38           |
| 2017/01/18 16:21 | 1.80       | 154.51     | 5.84           |
| 2017/01/18 16:36 | 1.80       | 154.51     | 5.84           |
| 2017/01/18 16:51 | 1.73       | 142.92     | 5.71           |
| 2017/01/18 17:06 | 1.73       | 139.58     | 5.58           |
| 2017/01/18 17:21 | 1.69       | 130.42     | 5.40           |
| 2017/01/18 17:36 | 1.76       | 138.06     | 5.40           |
| 2017/01/18 17:51 | 1.76       | 138.06     | 5.40           |
| 2017/01/18 18:06 | 1.76       | 138.06     | 5.40           |
| 2017/01/18 18:21 | 1.82       | 150.83     | 5.64           |
| 2017/01/18 18:36 | 1.82       | 150.83     | 5.64           |
| 2017/01/18 18:51 | 1.82       | 159.03     | 5.95           |
| 2017/01/18 19:06 | 1.82       | 161.18     | 6.03           |
| 2017/01/18 19:21 | 1.89       | 170.56     | 6.05           |
| 2017/01/18 19:36 | 1.82       | 161.67     | 6.05           |
| 2017/01/18 19:51 | 1.82       | 161.67     | 6.05           |
| 2017/01/18 20:06 | 1.84       | 165.49     | 6.06           |
| 2017/01/18 20:21 | 1.86       | 167.22     | 6.06           |
| 2017/01/18 20:36 | 1.87       | 172.71     | 6.19           |
| 2017/01/18 20:51 | 1.87       | 173.12     | 6.20           |
| 2017/01/18 21:06 | 1.87       | 169.03     | 6.06           |
| 2017/01/18 21:21 | 1.87       | 169.03     | 6.06           |
| 2017/01/18 21:36 | 1.87       | 168.61     | 6.04           |
| 2017/01/18 21:51 | 1.86       | 166.25     | 6.02           |
| 2017/01/18 22:06 | 1.87       | 168.61     | 6.04           |
| 2017/01/18 22:21 | 1.83       | 162.71     | 6.02           |
| 2017/01/18 22:36 | 1.76       | 153.26     | 5.99           |
| 2017/01/18 22:51 | 1.76       | 150.69     | 5.89           |
| 2017/01/18 23:06 | 1.76       | 150.69     | 5.89           |
| 2017/01/18 23:21 | 1.76       | 150.69     | 5.89           |
| 2017/01/18 23:36 | 1.76       | 146.67     | 5.73           |
| 2017/01/18 23:51 | 1.75       | 144.17     | 5.70           |
| 2017/01/19 00:06 | 1.73       | 135.56     | 5.42           |
| 2017/01/19 00:21 | 1.72       | 122.36     | 4.95           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 00:36 | 1.73       | 120.56     | 4.82           |
| 2017/01/19 00:51 | 1.73       | 115.69     | 4.63           |
| 2017/01/19 01:06 | 1.73       | 115.69     | 4.63           |
| 2017/01/19 01:21 | 1.78       | 114.65     | 4.43           |
| 2017/01/19 01:36 | 1.79       | 110.76     | 4.23           |
| 2017/01/19 01:51 | 1.79       | 110.76     | 4.23           |
| 2017/01/19 02:06 | 1.79       | 110.76     | 4.23           |
| 2017/01/19 02:21 | 1.82       | 124.72     | 4.66           |
| 2017/01/19 02:36 | 1.82       | 126.18     | 4.72           |
| 2017/01/19 02:51 | 1.83       | 156.18     | 5.78           |
| 2017/01/19 03:06 | 1.82       | 154.44     | 5.78           |
| 2017/01/19 03:21 | 1.82       | 154.44     | 5.78           |
| 2017/01/19 03:36 | 1.83       | 156.18     | 5.78           |
| 2017/01/19 03:51 | 1.83       | 144.58     | 5.35           |
| 2017/01/19 04:06 | 1.83       | 144.58     | 5.35           |
| 2017/01/19 04:21 | 1.83       | 144.58     | 5.35           |
| 2017/01/19 04:36 | 1.83       | 144.58     | 5.35           |
| 2017/01/19 04:51 | 2.00       | 208.05     | 6.80           |
| 2017/01/19 05:06 | 2.00       | 208.05     | 6.80           |
| 2017/01/19 05:21 | 2.00       | 208.05     | 6.80           |
| 2017/01/19 05:36 | 2.00       | 208.05     | 6.80           |
| 2017/01/19 05:51 | 2.00       | 195.07     | 6.38           |
| 2017/01/19 06:06 | 1.89       | 173.33     | 6.15           |
| 2017/01/19 06:21 | 1.80       | 157.57     | 5.96           |
| 2017/01/19 06:36 | 1.80       | 157.57     | 5.96           |
| 2017/01/19 06:51 | 1.80       | 157.57     | 5.96           |
| 2017/01/19 07:06 | 1.80       | 157.57     | 5.96           |
| 2017/01/19 07:21 | 1.84       | 163.82     | 6.00           |
| 2017/01/19 07:36 | 1.96       | 181.60     | 6.12           |
| 2017/01/19 07:51 | 2.01       | 203.89     | 6.60           |
| 2017/01/19 08:06 | 2.04       | 212.85     | 6.76           |
| 2017/01/19 08:21 | 2.04       | 212.85     | 6.76           |
| 2017/01/19 08:36 | 2.07       | 217.43     | 6.78           |
| 2017/01/19 08:51 | 2.07       | 216.94     | 6.76           |
| 2017/01/19 09:06 | 2.04       | 209.93     | 6.67           |
| 2017/01/19 09:21 | 2.04       | 209.44     | 6.65           |
| 2017/01/19 09:36 | 1.97       | 199.44     | 6.65           |
| 2017/01/19 09:51 | 1.96       | 196.32     | 6.61           |
| 2017/01/19 10:06 | 1.89       | 180.69     | 6.41           |
| 2017/01/19 10:21 | 1.89       | 180.69     | 6.41           |
| 2017/01/19 10:36 | 1.89       | 177.64     | 6.30           |
| 2017/01/19 10:51 | 1.87       | 174.24     | 6.24           |
| 2017/01/19 11:06 | 1.87       | 168.12     | 6.02           |
| 2017/01/19 11:21 | 1.84       | 162.15     | 5.94           |
| 2017/01/19 11:36 | 1.84       | 164.58     | 6.02           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 11:51 | 1.84       | 167.57     | 6.13           |
| 2017/01/19 12:06 | 1.83       | 162.85     | 6.02           |
| 2017/01/19 12:21 | 1.80       | 157.01     | 5.94           |
| 2017/01/19 12:36 | 1.78       | 155.35     | 6.00           |
| 2017/01/19 12:51 | 1.78       | 152.78     | 5.91           |
| 2017/01/19 13:06 | 1.78       | 152.78     | 5.91           |
| 2017/01/19 13:21 | 1.76       | 147.50     | 5.77           |
| 2017/01/19 13:36 | 1.75       | 144.24     | 5.70           |
| 2017/01/19 13:51 | 1.72       | 126.18     | 5.10           |
| 2017/01/19 14:06 | 1.72       | 126.18     | 5.10           |
| 2017/01/19 14:21 | 1.71       | 124.72     | 5.10           |
| 2017/01/19 14:36 | 1.71       | 124.72     | 5.10           |
| 2017/01/19 14:51 | 1.72       | 128.12     | 5.18           |
| 2017/01/19 15:06 | 1.72       | 128.12     | 5.18           |
| 2017/01/19 15:21 | 1.72       | 128.68     | 5.20           |
| 2017/01/19 15:36 | 1.76       | 140.49     | 5.49           |
| 2017/01/19 15:51 | 1.72       | 128.68     | 5.20           |
| 2017/01/19 16:06 | 1.73       | 130.14     | 5.20           |
| 2017/01/19 16:21 | 1.73       | 130.14     | 5.20           |
| 2017/01/19 16:36 | 1.76       | 140.83     | 5.50           |
| 2017/01/19 16:51 | 1.76       | 141.46     | 5.53           |
| 2017/01/19 17:06 | 1.75       | 139.86     | 5.53           |
| 2017/01/19 17:21 | 1.75       | 139.86     | 5.53           |
| 2017/01/19 17:36 | 1.75       | 147.36     | 5.83           |
| 2017/01/19 17:51 | 1.75       | 147.36     | 5.83           |
| 2017/01/19 18:06 | 1.75       | 147.36     | 5.83           |
| 2017/01/19 18:21 | 1.75       | 147.36     | 5.83           |
| 2017/01/19 18:36 | 1.80       | 154.10     | 5.83           |
| 2017/01/19 18:51 | 1.82       | 159.44     | 5.96           |
| 2017/01/19 19:06 | 1.80       | 155.21     | 5.87           |
| 2017/01/19 19:21 | 1.82       | 159.44     | 5.96           |
| 2017/01/19 19:36 | 1.82       | 162.36     | 6.07           |
| 2017/01/19 19:51 | 1.80       | 157.71     | 5.96           |
| 2017/01/19 20:06 | 1.80       | 155.21     | 5.87           |
| 2017/01/19 20:21 | 1.79       | 153.54     | 5.87           |
| 2017/01/19 20:36 | 1.79       | 153.54     | 5.87           |
| 2017/01/19 20:51 | 1.80       | 160.62     | 6.07           |
| 2017/01/19 21:06 | 1.79       | 154.51     | 5.91           |
| 2017/01/19 21:21 | 1.79       | 149.58     | 5.72           |
| 2017/01/19 21:36 | 1.83       | 159.58     | 5.91           |
| 2017/01/19 21:51 | 1.91       | 178.61     | 6.20           |
| 2017/01/19 22:06 | 1.93       | 180.42     | 6.20           |
| 2017/01/19 22:21 | 1.91       | 170.07     | 5.91           |
| 2017/01/19 22:36 | 1.87       | 164.86     | 5.91           |
| 2017/01/19 22:51 | 1.87       | 170.07     | 6.09           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/19 23:06 | 1.87       | 170.07     | 6.09           |
| 2017/01/19 23:21 | 1.87       | 169.93     | 6.09           |
| 2017/01/19 23:36 | 1.87       | 164.86     | 5.91           |
| 2017/01/19 23:51 | 1.82       | 157.92     | 5.91           |
| 2017/01/20 00:06 | 1.75       | 142.15     | 5.62           |
| 2017/01/20 00:21 | 1.72       | 138.33     | 5.60           |
| 2017/01/20 00:36 | 1.72       | 131.25     | 5.31           |
| 2017/01/20 00:51 | 1.71       | 128.82     | 5.27           |
| 2017/01/20 01:06 | 1.71       | 124.17     | 5.08           |
| 2017/01/20 01:21 | 1.71       | 124.17     | 5.08           |
| 2017/01/20 01:36 | 1.64       | 113.82     | 4.94           |
| 2017/01/20 01:51 | 1.64       | 101.94     | 4.43           |
| 2017/01/20 02:06 | 1.64       | 101.32     | 4.40           |
| 2017/01/20 02:21 | 1.68       | 102.99     | 4.31           |
| 2017/01/20 02:36 | 1.69       | 101.46     | 4.20           |
| 2017/01/20 02:51 | 1.72       | 103.47     | 4.18           |
| 2017/01/20 03:06 | 1.76       | 104.31     | 4.08           |
| 2017/01/20 03:21 | 1.76       | 104.31     | 4.08           |
| 2017/01/20 03:36 | 1.76       | 104.31     | 4.08           |
| 2017/01/20 03:51 | 1.72       | 103.47     | 4.18           |
| 2017/01/20 04:06 | 1.72       | 122.71     | 4.96           |
| 2017/01/20 04:21 | 1.72       | 125.62     | 5.08           |
| 2017/01/20 04:36 | 1.72       | 125.62     | 5.08           |
| 2017/01/20 04:51 | 1.72       | 127.15     | 5.14           |
| 2017/01/20 05:06 | 1.72       | 127.15     | 5.14           |
| 2017/01/20 05:21 | 1.72       | 125.62     | 5.08           |
| 2017/01/20 05:36 | 1.72       | 123.47     | 4.99           |
| 2017/01/20 05:51 | 1.72       | 123.47     | 4.99           |
| 2017/01/20 06:06 | 1.72       | 123.47     | 4.99           |
| 2017/01/20 06:21 | 1.72       | 132.85     | 5.37           |
| 2017/01/20 06:36 | 1.72       | 137.22     | 5.55           |
| 2017/01/20 06:51 | 1.90       | 175.56     | 6.16           |
| 2017/01/20 07:06 | 1.96       | 194.10     | 6.54           |
| 2017/01/20 07:21 | 2.16       | 243.05     | 7.10           |
| 2017/01/20 07:36 | 2.16       | 247.85     | 7.24           |
| 2017/01/20 07:51 | 2.16       | 247.85     | 7.24           |
| 2017/01/20 08:06 | 2.19       | 252.29     | 7.24           |
| 2017/01/20 08:21 | 2.16       | 244.37     | 7.14           |
| 2017/01/20 08:36 | 2.16       | 243.05     | 7.10           |
| 2017/01/20 08:51 | 2.12       | 232.08     | 6.97           |
| 2017/01/20 09:06 | 2.04       | 217.43     | 6.91           |
| 2017/01/20 09:21 | 2.04       | 217.43     | 6.91           |
| 2017/01/20 09:36 | 2.07       | 222.50     | 6.94           |
| 2017/01/20 09:51 | 2.07       | 221.60     | 6.91           |
| 2017/01/20 10:06 | 2.07       | 221.60     | 6.91           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 10:21 | 2.12       | 230.97     | 6.94           |
| 2017/01/20 10:36 | 2.12       | 230.97     | 6.94           |
| 2017/01/20 10:51 | 2.12       | 232.43     | 6.98           |
| 2017/01/20 11:06 | 2.16       | 243.40     | 7.11           |
| 2017/01/20 11:21 | 2.16       | 243.40     | 7.11           |
| 2017/01/20 11:36 | 2.41       | 317.01     | 7.95           |
| 2017/01/20 11:51 | 2.66       | 390.21     | 8.55           |
| 2017/01/20 12:06 | 2.76       | 419.51     | 8.75           |
| 2017/01/20 12:21 | 2.76       | 419.51     | 8.75           |
| 2017/01/20 12:36 | 2.76       | 419.51     | 8.75           |
| 2017/01/20 12:51 | 2.66       | 390.21     | 8.55           |
| 2017/01/20 13:06 | 2.41       | 319.03     | 8.01           |
| 2017/01/20 13:21 | 1.94       | 184.93     | 6.29           |
| 2017/01/20 13:36 | 1.91       | 179.24     | 6.23           |
| 2017/01/20 13:51 | 1.87       | 171.60     | 6.15           |
| 2017/01/20 14:06 | 1.86       | 166.67     | 6.04           |
| 2017/01/20 14:21 | 1.86       | 166.67     | 6.04           |
| 2017/01/20 14:36 | 1.84       | 164.93     | 6.04           |
| 2017/01/20 14:51 | 1.83       | 159.65     | 5.91           |
| 2017/01/20 15:06 | 1.84       | 164.93     | 6.04           |
| 2017/01/20 15:21 | 1.83       | 159.65     | 5.91           |
| 2017/01/20 15:36 | 1.82       | 157.92     | 5.91           |
| 2017/01/20 15:51 | 1.83       | 157.99     | 5.84           |
| 2017/01/20 16:06 | 1.83       | 156.53     | 5.79           |
| 2017/01/20 16:21 | 1.80       | 153.19     | 5.79           |
| 2017/01/20 16:36 | 1.83       | 156.53     | 5.79           |
| 2017/01/20 16:51 | 1.80       | 153.19     | 5.79           |
| 2017/01/20 17:06 | 1.83       | 156.53     | 5.79           |
| 2017/01/20 17:21 | 1.83       | 156.53     | 5.79           |
| 2017/01/20 17:36 | 1.83       | 156.53     | 5.79           |
| 2017/01/20 17:51 | 1.79       | 149.24     | 5.70           |
| 2017/01/20 18:06 | 1.86       | 163.96     | 5.94           |
| 2017/01/20 18:21 | 1.79       | 148.26     | 5.67           |
| 2017/01/20 18:36 | 1.86       | 163.96     | 5.94           |
| 2017/01/20 18:51 | 1.86       | 163.96     | 5.94           |
| 2017/01/20 19:06 | 1.89       | 169.44     | 6.01           |
| 2017/01/20 19:21 | 1.89       | 172.92     | 6.13           |
| 2017/01/20 19:36 | 1.89       | 172.92     | 6.13           |
| 2017/01/20 19:51 | 1.87       | 167.71     | 6.01           |
| 2017/01/20 20:06 | 1.87       | 173.96     | 6.23           |
| 2017/01/20 20:21 | 1.83       | 168.47     | 6.23           |
| 2017/01/20 20:36 | 1.73       | 140.21     | 5.60           |
| 2017/01/20 20:51 | 1.73       | 139.44     | 5.58           |
| 2017/01/20 21:06 | 1.72       | 137.85     | 5.58           |
| 2017/01/20 21:21 | 1.72       | 137.85     | 5.58           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/20 21:36 | 1.72       | 137.85     | 5.58           |
| 2017/01/20 21:51 | 1.72       | 137.08     | 5.54           |
| 2017/01/20 22:06 | 1.73       | 139.44     | 5.58           |
| 2017/01/20 22:21 | 1.75       | 144.17     | 5.70           |
| 2017/01/20 22:36 | 1.75       | 148.54     | 5.87           |
| 2017/01/20 22:51 | 1.83       | 158.82     | 5.88           |
| 2017/01/20 23:06 | 1.75       | 148.68     | 5.88           |
| 2017/01/20 23:21 | 1.82       | 157.15     | 5.88           |
| 2017/01/20 23:36 | 1.82       | 157.15     | 5.88           |
| 2017/01/20 23:51 | 1.78       | 149.72     | 5.79           |
| 2017/01/21 00:06 | 1.75       | 141.60     | 5.60           |
| 2017/01/21 00:21 | 1.73       | 133.96     | 5.36           |
| 2017/01/21 00:36 | 1.73       | 127.85     | 5.11           |
| 2017/01/21 00:51 | 1.71       | 124.58     | 5.10           |
| 2017/01/21 01:06 | 1.71       | 120.07     | 4.91           |
| 2017/01/21 01:21 | 1.71       | 120.07     | 4.91           |
| 2017/01/21 01:36 | 1.68       | 116.74     | 4.89           |
| 2017/01/21 01:51 | 1.66       | 103.89     | 4.40           |
| 2017/01/21 02:06 | 1.66       | 103.68     | 4.39           |
| 2017/01/21 02:21 | 1.66       | 99.44      | 4.21           |
| 2017/01/21 02:36 | 1.71       | 102.99     | 4.21           |
| 2017/01/21 02:51 | 1.73       | 105.35     | 4.21           |
| 2017/01/21 03:06 | 1.73       | 102.29     | 4.09           |
| 2017/01/21 03:21 | 1.82       | 106.11     | 3.97           |
| 2017/01/21 03:36 | 1.84       | 108.40     | 3.97           |
| 2017/01/21 03:51 | 1.84       | 103.19     | 3.78           |
| 2017/01/21 04:06 | 1.84       | 103.19     | 3.78           |
| 2017/01/21 04:21 | 1.89       | 106.53     | 3.78           |
| 2017/01/21 04:36 | 1.89       | 105.07     | 3.72           |
| 2017/01/21 04:51 | 1.90       | 106.11     | 3.72           |
| 2017/01/21 05:06 | 1.94       | 110.97     | 3.78           |
| 2017/01/21 05:21 | 1.94       | 109.44     | 3.72           |
| 2017/01/21 05:36 | 1.96       | 112.85     | 3.80           |
| 2017/01/21 05:51 | 1.96       | 116.32     | 3.92           |
| 2017/01/21 06:06 | 1.94       | 115.07     | 3.92           |
| 2017/01/21 06:21 | 1.94       | 115.14     | 3.92           |
| 2017/01/21 06:36 | 1.83       | 105.90     | 3.92           |
| 2017/01/21 06:51 | 1.82       | 120.69     | 4.51           |
| 2017/01/21 07:06 | 1.76       | 127.57     | 4.99           |
| 2017/01/21 07:21 | 1.76       | 137.15     | 5.36           |
| 2017/01/21 07:36 | 1.76       | 140.07     | 5.47           |
| 2017/01/21 07:51 | 1.76       | 144.10     | 5.63           |
| 2017/01/21 08:06 | 1.80       | 155.62     | 5.88           |
| 2017/01/21 08:21 | 1.80       | 157.78     | 5.97           |
| 2017/01/21 08:36 | 1.80       | 157.78     | 5.97           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 08:51 | 1.82       | 163.19     | 6.10           |
| 2017/01/21 09:06 | 1.90       | 181.87     | 6.38           |
| 2017/01/21 09:21 | 1.93       | 186.46     | 6.41           |
| 2017/01/21 09:36 | 1.93       | 186.46     | 6.41           |
| 2017/01/21 09:51 | 1.93       | 186.46     | 6.41           |
| 2017/01/21 10:06 | 1.97       | 192.15     | 6.41           |
| 2017/01/21 10:21 | 1.97       | 192.15     | 6.41           |
| 2017/01/21 10:36 | 1.97       | 192.15     | 6.41           |
| 2017/01/21 10:51 | 2.05       | 210.00     | 6.61           |
| 2017/01/21 11:06 | 2.05       | 210.00     | 6.61           |
| 2017/01/21 11:21 | 2.05       | 214.30     | 6.74           |
| 2017/01/21 11:36 | 2.05       | 221.11     | 6.96           |
| 2017/01/21 11:51 | 2.05       | 221.80     | 6.98           |
| 2017/01/21 12:06 | 2.05       | 221.80     | 6.98           |
| 2017/01/21 12:21 | 2.05       | 221.11     | 6.96           |
| 2017/01/21 12:36 | 2.01       | 214.86     | 6.96           |
| 2017/01/21 12:51 | 1.98       | 204.17     | 6.74           |
| 2017/01/21 13:06 | 1.98       | 203.75     | 6.73           |
| 2017/01/21 13:21 | 1.97       | 198.54     | 6.62           |
| 2017/01/21 13:36 | 1.96       | 195.97     | 6.60           |
| 2017/01/21 13:51 | 1.94       | 192.43     | 6.55           |
| 2017/01/21 14:06 | 1.93       | 189.17     | 6.50           |
| 2017/01/21 14:21 | 1.93       | 188.47     | 6.48           |
| 2017/01/21 14:36 | 1.90       | 180.76     | 6.34           |
| 2017/01/21 14:51 | 1.87       | 176.25     | 6.32           |
| 2017/01/21 15:06 | 1.87       | 176.25     | 6.32           |
| 2017/01/21 15:21 | 1.82       | 161.46     | 6.04           |
| 2017/01/21 15:36 | 1.79       | 157.92     | 6.04           |
| 2017/01/21 15:51 | 1.79       | 153.26     | 5.86           |
| 2017/01/21 16:06 | 1.78       | 151.60     | 5.86           |
| 2017/01/21 16:21 | 1.76       | 148.06     | 5.79           |
| 2017/01/21 16:36 | 1.76       | 149.93     | 5.86           |
| 2017/01/21 16:51 | 1.76       | 149.93     | 5.86           |
| 2017/01/21 17:06 | 1.76       | 149.93     | 5.86           |
| 2017/01/21 17:21 | 1.84       | 173.33     | 6.34           |
| 2017/01/21 17:36 | 1.89       | 186.39     | 6.61           |
| 2017/01/21 17:51 | 1.91       | 190.28     | 6.61           |
| 2017/01/21 18:06 | 1.91       | 190.28     | 6.61           |
| 2017/01/21 18:21 | 1.90       | 186.25     | 6.54           |
| 2017/01/21 18:36 | 1.91       | 188.19     | 6.54           |
| 2017/01/21 18:51 | 1.90       | 182.92     | 6.42           |
| 2017/01/21 19:06 | 1.90       | 182.92     | 6.42           |
| 2017/01/21 19:21 | 1.86       | 175.69     | 6.36           |
| 2017/01/21 19:36 | 1.80       | 155.35     | 5.87           |
| 2017/01/21 19:51 | 1.80       | 154.79     | 5.85           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/21 20:06 | 1.75       | 146.67     | 5.80           |
| 2017/01/21 20:21 | 1.75       | 146.67     | 5.80           |
| 2017/01/21 20:36 | 1.75       | 146.67     | 5.80           |
| 2017/01/21 20:51 | 1.75       | 146.67     | 5.80           |
| 2017/01/21 21:06 | 1.75       | 146.67     | 5.80           |
| 2017/01/21 21:21 | 1.73       | 140.97     | 5.64           |
| 2017/01/21 21:36 | 1.73       | 140.97     | 5.64           |
| 2017/01/21 21:51 | 1.71       | 121.25     | 4.96           |
| 2017/01/21 22:06 | 1.71       | 121.25     | 4.96           |
| 2017/01/21 22:21 | 1.71       | 121.25     | 4.96           |
| 2017/01/21 22:36 | 1.71       | 127.36     | 5.21           |
| 2017/01/21 22:51 | 1.71       | 127.36     | 5.21           |
| 2017/01/21 23:06 | 1.71       | 127.36     | 5.21           |
| 2017/01/21 23:21 | 1.73       | 130.56     | 5.22           |
| 2017/01/21 23:36 | 1.73       | 132.43     | 5.29           |
| 2017/01/21 23:51 | 1.73       | 132.43     | 5.29           |
| 2017/01/22 00:06 | 1.73       | 130.56     | 5.22           |
| 2017/01/22 00:21 | 1.73       | 130.49     | 5.22           |
| 2017/01/22 00:36 | 1.73       | 130.49     | 5.22           |
| 2017/01/22 00:51 | 1.73       | 127.57     | 5.10           |
| 2017/01/22 01:06 | 1.69       | 120.07     | 4.97           |
| 2017/01/22 01:21 | 1.69       | 115.42     | 4.78           |
| 2017/01/22 01:36 | 1.69       | 116.46     | 4.82           |
| 2017/01/22 01:51 | 1.66       | 113.75     | 4.82           |
| 2017/01/22 02:06 | 1.66       | 111.53     | 4.73           |
| 2017/01/22 02:21 | 1.66       | 107.22     | 4.54           |
| 2017/01/22 02:36 | 1.66       | 106.94     | 4.53           |
| 2017/01/22 02:51 | 1.66       | 106.94     | 4.53           |
| 2017/01/22 03:06 | 1.69       | 109.51     | 4.53           |
| 2017/01/22 03:21 | 1.69       | 109.51     | 4.53           |
| 2017/01/22 03:36 | 1.71       | 108.96     | 4.46           |
| 2017/01/22 03:51 | 1.72       | 109.65     | 4.43           |
| 2017/01/22 04:06 | 1.72       | 109.65     | 4.43           |
| 2017/01/22 04:21 | 1.72       | 110.21     | 4.46           |
| 2017/01/22 04:36 | 1.72       | 106.04     | 4.29           |
| 2017/01/22 04:51 | 1.76       | 108.19     | 4.23           |
| 2017/01/22 05:06 | 1.76       | 103.47     | 4.04           |
| 2017/01/22 05:21 | 1.76       | 108.19     | 4.23           |
| 2017/01/22 05:36 | 1.76       | 108.54     | 4.24           |
| 2017/01/22 05:51 | 1.76       | 109.72     | 4.29           |
| 2017/01/22 06:06 | 1.76       | 109.72     | 4.29           |
| 2017/01/22 06:21 | 1.76       | 126.18     | 4.93           |
| 2017/01/22 06:36 | 1.75       | 124.79     | 4.93           |
| 2017/01/22 06:51 | 1.76       | 126.94     | 4.96           |
| 2017/01/22 07:06 | 1.76       | 133.82     | 5.23           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 07:21 | 1.76       | 137.64     | 5.38           |
| 2017/01/22 07:36 | 1.76       | 137.64     | 5.38           |
| 2017/01/22 07:51 | 1.76       | 137.71     | 5.38           |
| 2017/01/22 08:06 | 1.79       | 144.10     | 5.51           |
| 2017/01/22 08:21 | 1.82       | 153.54     | 5.74           |
| 2017/01/22 08:36 | 1.83       | 156.94     | 5.81           |
| 2017/01/22 08:51 | 1.86       | 166.04     | 6.01           |
| 2017/01/22 09:06 | 1.87       | 169.10     | 6.06           |
| 2017/01/22 09:21 | 1.89       | 178.61     | 6.33           |
| 2017/01/22 09:36 | 1.87       | 176.74     | 6.33           |
| 2017/01/22 09:51 | 2.03       | 207.36     | 6.65           |
| 2017/01/22 10:06 | 2.08       | 215.42     | 6.65           |
| 2017/01/22 10:21 | 2.08       | 219.30     | 6.77           |
| 2017/01/22 10:36 | 2.12       | 225.49     | 6.77           |
| 2017/01/22 10:51 | 2.18       | 233.82     | 6.77           |
| 2017/01/22 11:06 | 2.18       | 238.12     | 6.90           |
| 2017/01/22 11:21 | 2.23       | 263.96     | 7.38           |
| 2017/01/22 11:36 | 2.30       | 286.74     | 7.68           |
| 2017/01/22 11:51 | 2.41       | 308.89     | 7.75           |
| 2017/01/22 12:06 | 2.43       | 314.79     | 7.84           |
| 2017/01/22 12:21 | 2.46       | 323.33     | 7.92           |
| 2017/01/22 12:36 | 2.48       | 333.05     | 8.04           |
| 2017/01/22 12:51 | 2.53       | 343.68     | 8.10           |
| 2017/01/22 13:06 | 2.53       | 351.18     | 8.28           |
| 2017/01/22 13:21 | 2.62       | 375.48     | 8.40           |
| 2017/01/22 13:36 | 2.72       | 397.01     | 8.45           |
| 2017/01/22 13:51 | 2.76       | 415.00     | 8.66           |
| 2017/01/22 14:06 | 2.83       | 430.69     | 8.68           |
| 2017/01/22 14:21 | 2.86       | 438.82     | 8.73           |
| 2017/01/22 14:36 | 2.96       | 459.17     | 8.73           |
| 2017/01/22 14:51 | 3.08       | 485.55     | 8.73           |
| 2017/01/22 15:06 | 3.21       | 509.37     | 8.68           |
| 2017/01/22 15:21 | 8.05       | 256.80     | 1.64           |
| 2017/01/22 15:36 | 8.87       | 256.80     | 1.64           |
| 2017/01/22 15:51 | 9.05       | 183.26     | 1.17           |
| 2017/01/22 16:06 | 9.05       | 177.08     | 1.13           |
| 2017/01/22 16:21 | 9.09       | 177.08     | 1.13           |
| 2017/01/22 16:36 | 9.09       | 183.26     | 1.17           |
| 2017/01/22 16:51 | 9.09       | 194.72     | 1.25           |
| 2017/01/22 17:06 | 8.22       | 194.72     | 1.25           |
| 2017/01/22 17:21 | 4.80       | 122.29     | 1.25           |
| 2017/01/22 17:36 | 3.73       | 107.99     | 1.51           |
| 2017/01/22 17:51 | 3.66       | 129.58     | 1.85           |
| 2017/01/22 18:06 | 2.57       | 165.49     | 3.81           |
| 2017/01/22 18:21 | 2.57       | 177.36     | 4.09           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/22 18:36 | 2.57       | 179.17     | 4.13           |
| 2017/01/22 18:51 | 2.57       | 179.17     | 4.13           |
| 2017/01/22 19:06 | 2.73       | 195.35     | 4.13           |
| 2017/01/22 19:21 | 2.73       | 197.01     | 4.17           |
| 2017/01/22 19:36 | 2.73       | 198.26     | 4.19           |
| 2017/01/22 19:51 | 2.73       | 198.26     | 4.19           |
| 2017/01/22 20:06 | 2.83       | 203.19     | 4.10           |
| 2017/01/22 20:21 | 2.73       | 193.75     | 4.10           |
| 2017/01/22 20:36 | 2.73       | 193.75     | 4.10           |
| 2017/01/22 20:51 | 2.62       | 183.05     | 4.10           |
| 2017/01/22 21:06 | 2.59       | 172.43     | 3.92           |
| 2017/01/22 21:21 | 2.59       | 169.93     | 3.86           |
| 2017/01/22 21:36 | 2.62       | 172.43     | 3.86           |
| 2017/01/22 21:51 | 2.62       | 173.12     | 3.88           |
| 2017/01/22 22:06 | 2.65       | 175.69     | 3.88           |
| 2017/01/22 22:21 | 2.65       | 175.69     | 3.88           |
| 2017/01/22 22:36 | 2.65       | 177.57     | 3.92           |
| 2017/01/22 22:51 | 2.65       | 177.57     | 3.92           |
| 2017/01/22 23:06 | 2.62       | 181.67     | 4.07           |
| 2017/01/22 23:21 | 2.53       | 172.50     | 4.07           |
| 2017/01/22 23:36 | 2.34       | 153.61     | 4.01           |
| 2017/01/22 23:51 | 2.30       | 146.18     | 3.92           |
| 2017/01/23 00:06 | 2.30       | 146.18     | 3.92           |
| 2017/01/23 00:21 | 2.30       | 146.11     | 3.91           |
| 2017/01/23 00:36 | 2.55       | 165.49     | 3.84           |
| 2017/01/23 00:51 | 2.55       | 162.78     | 3.78           |
| 2017/01/23 01:06 | 2.72       | 176.53     | 3.76           |
| 2017/01/23 01:21 | 2.98       | 198.05     | 3.72           |
| 2017/01/23 01:36 | 3.00       | 195.35     | 3.65           |
| 2017/01/23 01:51 | 3.25       | 217.57     | 3.65           |
| 2017/01/23 02:06 | 3.26       | 215.55     | 3.59           |
| 2017/01/23 02:21 | 3.26       | 212.64     | 3.54           |
| 2017/01/23 02:36 | 3.26       | 210.90     | 3.51           |
| 2017/01/23 02:51 | 3.30       | 214.51     | 3.51           |
| 2017/01/23 03:06 | 3.30       | 214.51     | 3.51           |
| 2017/01/23 03:21 | 3.30       | 208.26     | 3.41           |
| 2017/01/23 03:36 | 3.33       | 204.93     | 3.32           |
| 2017/01/23 03:51 | 3.33       | 204.93     | 3.32           |
| 2017/01/23 04:06 | 3.33       | 204.93     | 3.32           |
| 2017/01/23 04:21 | 3.33       | 204.93     | 3.32           |
| 2017/01/23 04:36 | 3.29       | 200.14     | 3.30           |
| 2017/01/23 04:51 | 3.27       | 200.42     | 3.32           |
| 2017/01/23 05:06 | 3.27       | 204.86     | 3.39           |
| 2017/01/23 05:21 | 3.27       | 208.12     | 3.45           |
| 2017/01/23 05:36 | 3.25       | 206.46     | 3.46           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 05:51 | 3.25       | 206.46     | 3.46           |
| 2017/01/23 06:06 | 3.23       | 205.90     | 3.47           |
| 2017/01/23 06:21 | 3.02       | 218.54     | 4.03           |
| 2017/01/23 06:36 | 2.91       | 212.29     | 4.12           |
| 2017/01/23 06:51 | 2.90       | 221.60     | 4.32           |
| 2017/01/23 07:06 | 2.90       | 222.08     | 4.33           |
| 2017/01/23 07:21 | 2.89       | 224.72     | 4.41           |
| 2017/01/23 07:36 | 2.89       | 227.22     | 4.46           |
| 2017/01/23 07:51 | 2.89       | 252.22     | 4.95           |
| 2017/01/23 08:06 | 2.89       | 258.82     | 5.08           |
| 2017/01/23 08:21 | 2.89       | 258.82     | 5.08           |
| 2017/01/23 08:36 | 2.86       | 255.49     | 5.08           |
| 2017/01/23 08:51 | 2.68       | 226.11     | 4.92           |
| 2017/01/23 09:06 | 2.68       | 218.47     | 4.75           |
| 2017/01/23 09:21 | 2.73       | 224.72     | 4.75           |
| 2017/01/23 09:36 | 2.73       | 203.75     | 4.31           |
| 2017/01/23 09:51 | 2.73       | 193.54     | 4.09           |
| 2017/01/23 10:06 | 2.73       | 193.54     | 4.09           |
| 2017/01/23 10:21 | 2.73       | 185.07     | 3.91           |
| 2017/01/23 10:36 | 2.73       | 185.07     | 3.91           |
| 2017/01/23 10:51 | 2.73       | 184.37     | 3.90           |
| 2017/01/23 11:06 | 2.73       | 185.07     | 3.91           |
| 2017/01/23 11:21 | 2.65       | 177.43     | 3.91           |
| 2017/01/23 11:36 | 2.64       | 176.11     | 3.91           |
| 2017/01/23 11:51 | 2.64       | 170.90     | 3.80           |
| 2017/01/23 12:06 | 2.37       | 145.69     | 3.75           |
| 2017/01/23 12:21 | 2.22       | 132.85     | 3.75           |
| 2017/01/23 12:36 | 2.22       | 134.65     | 3.80           |
| 2017/01/23 12:51 | 2.22       | 134.65     | 3.80           |
| 2017/01/23 13:06 | 2.37       | 151.81     | 3.90           |
| 2017/01/23 13:21 | 2.12       | 129.93     | 3.90           |
| 2017/01/23 13:36 | 2.54       | 167.22     | 3.91           |
| 2017/01/23 13:51 | 2.57       | 169.93     | 3.92           |
| 2017/01/23 14:06 | 2.59       | 172.43     | 3.92           |
| 2017/01/23 14:21 | 2.73       | 194.37     | 4.11           |
| 2017/01/23 14:36 | 2.73       | 185.21     | 3.92           |
| 2017/01/23 14:51 | 2.73       | 185.07     | 3.91           |
| 2017/01/23 15:06 | 2.76       | 187.64     | 3.91           |
| 2017/01/23 15:21 | 2.79       | 190.42     | 3.92           |
| 2017/01/23 15:36 | 2.87       | 207.99     | 4.11           |
| 2017/01/23 15:51 | 2.90       | 210.69     | 4.11           |
| 2017/01/23 16:06 | 2.90       | 216.74     | 4.23           |
| 2017/01/23 16:21 | 2.93       | 219.58     | 4.23           |
| 2017/01/23 16:36 | 2.93       | 219.58     | 4.23           |
| 2017/01/23 16:51 | 2.94       | 220.97     | 4.23           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/23 17:06 | 2.94       | 220.97     | 4.23           |
| 2017/01/23 17:21 | 2.94       | 215.35     | 4.12           |
| 2017/01/23 17:36 | 2.94       | 215.35     | 4.12           |
| 2017/01/23 17:51 | 2.94       | 215.35     | 4.12           |
| 2017/01/23 18:06 | 2.94       | 215.35     | 4.12           |
| 2017/01/23 18:21 | 2.87       | 209.37     | 4.14           |
| 2017/01/23 18:36 | 2.87       | 214.72     | 4.24           |
| 2017/01/23 18:51 | 2.94       | 217.85     | 4.17           |
| 2017/01/23 19:06 | 2.96       | 219.24     | 4.17           |
| 2017/01/23 19:21 | 3.16       | 240.90     | 4.18           |
| 2017/01/23 19:36 | 3.16       | 240.90     | 4.18           |
| 2017/01/23 19:51 | 3.16       | 240.90     | 4.18           |
| 2017/01/23 20:06 | 3.16       | 240.90     | 4.18           |
| 2017/01/23 20:21 | 3.12       | 236.67     | 4.18           |
| 2017/01/23 20:36 | 3.07       | 231.04     | 4.18           |
| 2017/01/23 20:51 | 2.98       | 229.93     | 4.32           |
| 2017/01/23 21:06 | 2.94       | 225.55     | 4.32           |
| 2017/01/23 21:21 | 2.94       | 206.87     | 3.96           |
| 2017/01/23 21:36 | 2.94       | 235.35     | 4.50           |
| 2017/01/23 21:51 | 2.94       | 205.62     | 3.94           |
| 2017/01/23 22:06 | 2.94       | 205.62     | 3.94           |
| 2017/01/23 22:21 | 2.94       | 209.24     | 4.00           |
| 2017/01/23 22:36 | 2.94       | 205.62     | 3.94           |
| 2017/01/23 22:51 | 2.98       | 209.65     | 3.94           |
| 2017/01/23 23:06 | 3.01       | 212.29     | 3.94           |
| 2017/01/23 23:21 | 3.11       | 221.60     | 3.94           |
| 2017/01/23 23:36 | 3.11       | 221.60     | 3.94           |
| 2017/01/23 23:51 | 3.14       | 217.92     | 3.83           |
| 2017/01/24 00:06 | 3.15       | 219.24     | 3.83           |
| 2017/01/24 00:21 | 3.15       | 225.55     | 3.94           |
| 2017/01/24 00:36 | 3.16       | 223.05     | 3.87           |
| 2017/01/24 00:51 | 3.16       | 223.05     | 3.87           |
| 2017/01/24 01:06 | 3.16       | 196.67     | 3.41           |
| 2017/01/24 01:21 | 3.19       | 199.79     | 3.43           |
| 2017/01/24 01:36 | 3.21       | 210.07     | 3.58           |
| 2017/01/24 01:51 | 3.37       | 214.93     | 3.43           |
| 2017/01/24 02:06 | 3.39       | 215.28     | 3.41           |
| 2017/01/24 02:21 | 3.43       | 218.75     | 3.41           |
| 2017/01/24 02:36 | 3.43       | 219.65     | 3.43           |
| 2017/01/24 02:51 | 3.43       | 219.65     | 3.43           |
| 2017/01/24 03:06 | 3.43       | 216.32     | 3.37           |
| 2017/01/24 03:21 | 3.43       | 204.17     | 3.18           |
| 2017/01/24 03:36 | 3.43       | 204.17     | 3.18           |
| 2017/01/24 03:51 | 3.41       | 200.49     | 3.14           |
| 2017/01/24 04:06 | 3.40       | 199.37     | 3.14           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 04:21 | 3.40       | 199.37     | 3.14           |
| 2017/01/24 04:36 | 3.39       | 198.33     | 3.14           |
| 2017/01/24 04:51 | 3.37       | 205.00     | 3.27           |
| 2017/01/24 05:06 | 3.34       | 210.97     | 3.40           |
| 2017/01/24 05:21 | 3.16       | 215.14     | 3.73           |
| 2017/01/24 05:36 | 2.91       | 201.11     | 3.90           |
| 2017/01/24 05:51 | 2.91       | 202.29     | 3.92           |
| 2017/01/24 06:06 | 2.91       | 202.29     | 3.92           |
| 2017/01/24 06:21 | 2.84       | 199.58     | 4.00           |
| 2017/01/24 06:36 | 2.82       | 207.43     | 4.21           |
| 2017/01/24 06:51 | 2.84       | 210.21     | 4.21           |
| 2017/01/24 07:06 | 2.84       | 210.21     | 4.21           |
| 2017/01/24 07:21 | 2.94       | 220.97     | 4.23           |
| 2017/01/24 07:36 | 2.94       | 239.79     | 4.59           |
| 2017/01/24 07:51 | 2.94       | 241.53     | 4.62           |
| 2017/01/24 08:06 | 2.94       | 239.79     | 4.59           |
| 2017/01/24 08:21 | 2.94       | 241.53     | 4.62           |
| 2017/01/24 08:36 | 2.91       | 238.47     | 4.62           |
| 2017/01/24 08:51 | 2.79       | 230.97     | 4.75           |
| 2017/01/24 09:06 | 2.79       | 230.97     | 4.75           |
| 2017/01/24 09:21 | 2.78       | 229.37     | 4.75           |
| 2017/01/24 09:36 | 2.76       | 206.46     | 4.31           |
| 2017/01/24 09:51 | 2.78       | 230.28     | 4.77           |
| 2017/01/24 10:06 | 2.78       | 207.92     | 4.31           |
| 2017/01/24 10:21 | 2.84       | 220.69     | 4.42           |
| 2017/01/24 10:36 | 2.89       | 219.30     | 4.31           |
| 2017/01/24 10:51 | 2.91       | 222.15     | 4.31           |
| 2017/01/24 11:06 | 2.91       | 221.11     | 4.29           |
| 2017/01/24 11:21 | 2.91       | 204.93     | 3.97           |
| 2017/01/24 11:36 | 2.91       | 204.93     | 3.97           |
| 2017/01/24 11:51 | 2.86       | 199.65     | 3.97           |
| 2017/01/24 12:06 | 2.86       | 199.51     | 3.97           |
| 2017/01/24 12:21 | 2.86       | 199.65     | 3.97           |
| 2017/01/24 12:36 | 2.86       | 199.65     | 3.97           |
| 2017/01/24 12:51 | 2.90       | 203.40     | 3.97           |
| 2017/01/24 13:06 | 2.94       | 211.25     | 4.04           |
| 2017/01/24 13:21 | 2.96       | 208.75     | 3.97           |
| 2017/01/24 13:36 | 2.96       | 208.75     | 3.97           |
| 2017/01/24 13:51 | 2.96       | 208.75     | 3.97           |
| 2017/01/24 14:06 | 2.96       | 200.76     | 3.82           |
| 2017/01/24 14:21 | 2.96       | 208.75     | 3.97           |
| 2017/01/24 14:36 | 2.94       | 211.25     | 4.04           |
| 2017/01/24 14:51 | 2.73       | 180.55     | 3.82           |
| 2017/01/24 15:06 | 2.59       | 178.12     | 4.05           |
| 2017/01/24 15:21 | 2.57       | 175.49     | 4.05           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/24 15:36 | 2.50       | 167.29     | 4.01           |
| 2017/01/24 15:51 | 2.57       | 173.75     | 4.01           |
| 2017/01/24 16:06 | 2.57       | 173.75     | 4.01           |
| 2017/01/24 16:21 | 2.57       | 173.75     | 4.01           |
| 2017/01/24 16:36 | 2.68       | 184.17     | 4.01           |
| 2017/01/24 16:51 | 2.75       | 190.76     | 4.01           |
| 2017/01/24 17:06 | 2.93       | 205.14     | 3.95           |
| 2017/01/24 17:21 | 2.94       | 215.76     | 4.13           |
| 2017/01/24 17:36 | 2.94       | 220.28     | 4.21           |
| 2017/01/24 17:51 | 2.94       | 220.28     | 4.21           |
| 2017/01/24 18:06 | 2.94       | 215.76     | 4.13           |
| 2017/01/24 18:21 | 2.93       | 214.37     | 4.13           |
| 2017/01/24 18:36 | 2.93       | 212.50     | 4.09           |
| 2017/01/24 18:51 | 2.94       | 220.90     | 4.23           |
| 2017/01/24 19:06 | 2.91       | 226.39     | 4.39           |
| 2017/01/24 19:21 | 2.91       | 235.69     | 4.57           |
| 2017/01/24 19:36 | 2.93       | 241.74     | 4.66           |
| 2017/01/24 19:51 | 2.93       | 241.74     | 4.66           |
| 2017/01/24 20:06 | 2.96       | 244.86     | 4.66           |
| 2017/01/24 20:21 | 2.93       | 250.00     | 4.81           |
| 2017/01/24 20:36 | 2.93       | 241.74     | 4.66           |
| 2017/01/24 20:51 | 2.93       | 235.21     | 4.53           |
| 2017/01/24 21:06 | 2.91       | 229.79     | 4.45           |
| 2017/01/24 21:21 | 2.86       | 220.55     | 4.39           |
| 2017/01/24 21:36 | 2.86       | 223.89     | 4.45           |
| 2017/01/24 21:51 | 2.82       | 216.18     | 4.39           |
| 2017/01/24 22:06 | 2.82       | 213.82     | 4.34           |
| 2017/01/24 22:21 | 2.79       | 210.90     | 4.34           |
| 2017/01/24 22:36 | 2.78       | 197.50     | 4.09           |
| 2017/01/24 22:51 | 2.79       | 190.55     | 3.92           |
| 2017/01/24 23:06 | 2.86       | 196.46     | 3.91           |
| 2017/01/24 23:21 | 2.91       | 201.67     | 3.91           |
| 2017/01/24 23:36 | 3.04       | 212.64     | 3.89           |
| 2017/01/24 23:51 | 3.04       | 212.64     | 3.89           |
| 2017/01/25 00:06 | 3.05       | 214.79     | 3.91           |
| 2017/01/25 00:21 | 3.05       | 215.00     | 3.91           |
| 2017/01/25 00:36 | 3.11       | 220.07     | 3.91           |
| 2017/01/25 00:51 | 3.14       | 222.99     | 3.91           |
| 2017/01/25 01:06 | 3.16       | 225.62     | 3.91           |
| 2017/01/25 01:21 | 3.16       | 225.62     | 3.91           |
| 2017/01/25 01:36 | 3.16       | 225.62     | 3.91           |
| 2017/01/25 01:51 | 3.18       | 208.82     | 3.60           |
| 2017/01/25 02:06 | 3.37       | 223.96     | 3.57           |
| 2017/01/25 02:21 | 3.39       | 225.14     | 3.57           |
| 2017/01/25 02:36 | 3.40       | 224.93     | 3.55           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 02:51 | 3.46       | 229.79     | 3.55           |
| 2017/01/25 03:06 | 3.47       | 229.10     | 3.52           |
| 2017/01/25 03:21 | 3.47       | 229.10     | 3.52           |
| 2017/01/25 03:36 | 3.50       | 231.53     | 3.52           |
| 2017/01/25 03:51 | 3.50       | 231.53     | 3.52           |
| 2017/01/25 04:06 | 3.50       | 231.53     | 3.52           |
| 2017/01/25 04:21 | 3.43       | 224.72     | 3.51           |
| 2017/01/25 04:36 | 3.43       | 224.72     | 3.51           |
| 2017/01/25 04:51 | 3.43       | 224.72     | 3.51           |
| 2017/01/25 05:06 | 3.41       | 223.54     | 3.51           |
| 2017/01/25 05:21 | 3.39       | 222.78     | 3.53           |
| 2017/01/25 05:36 | 3.33       | 227.99     | 3.69           |
| 2017/01/25 05:51 | 3.22       | 217.92     | 3.69           |
| 2017/01/25 06:06 | 3.21       | 221.53     | 3.78           |
| 2017/01/25 06:21 | 3.11       | 213.89     | 3.80           |
| 2017/01/25 06:36 | 3.04       | 219.72     | 4.02           |
| 2017/01/25 06:51 | 3.00       | 226.46     | 4.23           |
| 2017/01/25 07:06 | 2.87       | 214.51     | 4.24           |
| 2017/01/25 07:21 | 2.87       | 216.53     | 4.28           |
| 2017/01/25 07:36 | 2.87       | 216.53     | 4.28           |
| 2017/01/25 07:51 | 2.84       | 213.96     | 4.28           |
| 2017/01/25 08:06 | 2.84       | 213.96     | 4.28           |
| 2017/01/25 08:21 | 2.84       | 227.78     | 4.56           |
| 2017/01/25 08:36 | 2.84       | 227.78     | 4.56           |
| 2017/01/25 08:51 | 2.84       | 227.78     | 4.56           |
| 2017/01/25 09:06 | 2.83       | 211.87     | 4.27           |
| 2017/01/25 09:21 | 2.89       | 232.36     | 4.56           |
| 2017/01/25 09:36 | 2.90       | 219.03     | 4.27           |
| 2017/01/25 09:51 | 2.90       | 232.36     | 4.53           |
| 2017/01/25 10:06 | 2.89       | 217.57     | 4.27           |
| 2017/01/25 10:21 | 2.84       | 226.32     | 4.53           |
| 2017/01/25 10:36 | 2.83       | 211.87     | 4.27           |
| 2017/01/25 10:51 | 2.48       | 187.92     | 4.53           |
| 2017/01/25 11:06 | 2.47       | 180.28     | 4.38           |
| 2017/01/25 11:21 | 2.44       | 179.03     | 4.42           |
| 2017/01/25 11:36 | 2.30       | 163.61     | 4.38           |
| 2017/01/25 11:51 | 2.37       | 170.56     | 4.38           |
| 2017/01/25 12:06 | 2.30       | 149.03     | 3.99           |
| 2017/01/25 12:21 | 2.30       | 149.03     | 3.99           |
| 2017/01/25 12:36 | 2.22       | 141.53     | 3.99           |
| 2017/01/25 12:51 | 2.19       | 139.03     | 3.99           |
| 2017/01/25 13:06 | 2.19       | 138.33     | 3.97           |
| 2017/01/25 13:21 | 2.15       | 134.72     | 3.97           |
| 2017/01/25 13:36 | 2.09       | 129.86     | 3.97           |
| 2017/01/25 13:51 | 2.07       | 128.26     | 4.00           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/25 14:06 | 2.05       | 133.61     | 4.21           |
| 2017/01/25 14:21 | 2.01       | 125.76     | 4.07           |
| 2017/01/25 14:36 | 2.01       | 125.76     | 4.07           |
| 2017/01/25 14:51 | 2.01       | 125.97     | 4.08           |
| 2017/01/25 15:06 | 1.98       | 123.54     | 4.08           |
| 2017/01/25 15:21 | 1.98       | 123.54     | 4.08           |
| 2017/01/25 15:36 | 1.98       | 123.54     | 4.08           |
| 2017/01/25 15:51 | 2.01       | 125.97     | 4.08           |
| 2017/01/25 16:06 | 2.04       | 131.67     | 4.18           |
| 2017/01/25 16:21 | 2.01       | 125.97     | 4.08           |
| 2017/01/25 16:36 | 2.04       | 124.86     | 3.97           |
| 2017/01/25 16:51 | 2.04       | 124.86     | 3.97           |
| 2017/01/25 17:06 | 2.04       | 126.53     | 4.02           |
| 2017/01/25 17:21 | 1.96       | 117.71     | 3.97           |
| 2017/01/25 17:36 | 1.96       | 114.03     | 3.84           |
| 2017/01/25 17:51 | 1.96       | 114.03     | 3.84           |
| 2017/01/25 18:06 | 1.98       | 116.11     | 3.84           |
| 2017/01/25 18:21 | 1.96       | 114.03     | 3.84           |
| 2017/01/25 18:36 | 1.98       | 116.32     | 3.84           |
| 2017/01/25 18:51 | 2.16       | 131.46     | 3.84           |
| 2017/01/25 19:06 | 2.16       | 145.97     | 4.27           |
| 2017/01/25 19:21 | 2.16       | 145.97     | 4.27           |
| 2017/01/25 19:36 | 2.25       | 158.68     | 4.40           |
| 2017/01/25 19:51 | 2.25       | 158.68     | 4.40           |
| 2017/01/25 20:06 | 2.28       | 150.42     | 4.10           |
| 2017/01/25 20:21 | 2.30       | 152.99     | 4.10           |
| 2017/01/25 20:36 | 2.48       | 169.86     | 4.10           |
| 2017/01/25 20:51 | 2.48       | 169.86     | 4.10           |
| 2017/01/25 21:06 | 2.48       | 160.56     | 3.87           |
| 2017/01/25 21:21 | 2.48       | 160.56     | 3.87           |
| 2017/01/25 21:36 | 2.30       | 150.35     | 4.03           |
| 2017/01/25 21:51 | 2.37       | 166.25     | 4.27           |
| 2017/01/25 22:06 | 2.28       | 164.44     | 4.48           |
| 2017/01/25 22:21 | 2.12       | 142.29     | 4.27           |
| 2017/01/25 22:36 | 2.07       | 129.24     | 4.03           |
| 2017/01/25 22:51 | 2.12       | 134.17     | 4.03           |
| 2017/01/25 23:06 | 2.07       | 132.29     | 4.12           |
| 2017/01/25 23:21 | 2.07       | 122.08     | 3.81           |
| 2017/01/25 23:36 | 2.07       | 122.08     | 3.81           |
| 2017/01/25 23:51 | 2.07       | 122.08     | 3.81           |
| 2017/01/26 00:06 | 2.07       | 123.54     | 3.85           |
| 2017/01/26 00:21 | 2.08       | 124.65     | 3.85           |
| 2017/01/26 00:36 | 2.07       | 123.54     | 3.85           |
| 2017/01/26 00:51 | 2.07       | 123.54     | 3.85           |
| 2017/01/26 01:06 | 2.08       | 124.65     | 3.85           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 01:21 | 2.08       | 125.14     | 3.87           |
| 2017/01/26 01:36 | 2.08       | 119.17     | 3.68           |
| 2017/01/26 01:51 | 2.12       | 122.50     | 3.68           |
| 2017/01/26 02:06 | 2.16       | 125.90     | 3.68           |
| 2017/01/26 02:21 | 2.16       | 125.90     | 3.68           |
| 2017/01/26 02:36 | 2.16       | 125.90     | 3.68           |
| 2017/01/26 02:51 | 2.33       | 139.65     | 3.68           |
| 2017/01/26 03:06 | 2.33       | 135.69     | 3.58           |
| 2017/01/26 03:21 | 2.16       | 119.65     | 3.50           |
| 2017/01/26 03:36 | 2.16       | 116.74     | 3.41           |
| 2017/01/26 03:51 | 2.03       | 106.32     | 3.41           |
| 2017/01/26 04:06 | 2.16       | 116.74     | 3.41           |
| 2017/01/26 04:21 | 2.18       | 117.78     | 3.41           |
| 2017/01/26 04:36 | 2.18       | 118.68     | 3.44           |
| 2017/01/26 04:51 | 2.22       | 132.50     | 3.74           |
| 2017/01/26 05:06 | 2.29       | 148.54     | 4.01           |
| 2017/01/26 05:21 | 2.29       | 148.54     | 4.01           |
| 2017/01/26 05:36 | 2.29       | 148.54     | 4.01           |
| 2017/01/26 05:51 | 2.29       | 139.44     | 3.77           |
| 2017/01/26 06:06 | 2.29       | 141.81     | 3.83           |
| 2017/01/26 06:21 | 2.15       | 127.78     | 3.77           |
| 2017/01/26 06:36 | 2.15       | 127.78     | 3.77           |
| 2017/01/26 06:51 | 2.11       | 124.31     | 3.77           |
| 2017/01/26 07:06 | 2.11       | 126.39     | 3.83           |
| 2017/01/26 07:21 | 2.15       | 140.83     | 4.15           |
| 2017/01/26 07:36 | 2.15       | 143.26     | 4.22           |
| 2017/01/26 07:51 | 2.72       | 248.05     | 5.28           |
| 2017/01/26 08:06 | 2.78       | 255.62     | 5.29           |
| 2017/01/26 08:21 | 2.78       | 255.62     | 5.29           |
| 2017/01/26 08:36 | 2.78       | 255.62     | 5.29           |
| 2017/01/26 08:51 | 2.72       | 248.05     | 5.28           |
| 2017/01/26 09:06 | 2.40       | 158.26     | 4.00           |
| 2017/01/26 09:21 | 2.18       | 137.29     | 3.98           |
| 2017/01/26 09:36 | 2.16       | 136.04     | 3.98           |
| 2017/01/26 09:51 | 2.05       | 125.90     | 3.96           |
| 2017/01/26 10:06 | 1.98       | 120.42     | 3.98           |
| 2017/01/26 10:21 | 1.98       | 121.25     | 4.00           |
| 2017/01/26 10:36 | 1.96       | 117.57     | 3.96           |
| 2017/01/26 10:51 | 1.96       | 117.57     | 3.96           |
| 2017/01/26 11:06 | 1.96       | 117.57     | 3.96           |
| 2017/01/26 11:21 | 1.96       | 112.99     | 3.81           |
| 2017/01/26 11:36 | 1.96       | 111.39     | 3.75           |
| 2017/01/26 11:51 | 1.91       | 106.94     | 3.72           |
| 2017/01/26 12:06 | 1.91       | 106.94     | 3.72           |
| 2017/01/26 12:21 | 1.87       | 104.72     | 3.75           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 12:36 | 1.86       | 103.61     | 3.75           |
| 2017/01/26 12:51 | 1.86       | 102.01     | 3.69           |
| 2017/01/26 13:06 | 1.86       | 103.61     | 3.75           |
| 2017/01/26 13:21 | 1.86       | 98.33      | 3.56           |
| 2017/01/26 13:36 | 1.83       | 101.94     | 3.77           |
| 2017/01/26 13:51 | 1.83       | 96.25      | 3.56           |
| 2017/01/26 14:06 | 1.84       | 97.29      | 3.56           |
| 2017/01/26 14:21 | 1.80       | 99.51      | 3.76           |
| 2017/01/26 14:36 | 1.83       | 101.94     | 3.77           |
| 2017/01/26 14:51 | 1.83       | 102.15     | 3.78           |
| 2017/01/26 15:06 | 1.83       | 104.24     | 3.86           |
| 2017/01/26 15:21 | 1.84       | 103.19     | 3.78           |
| 2017/01/26 15:36 | 1.84       | 105.56     | 3.86           |
| 2017/01/26 15:51 | 1.93       | 112.36     | 3.86           |
| 2017/01/26 16:06 | 1.93       | 112.36     | 3.86           |
| 2017/01/26 16:21 | 1.93       | 112.36     | 3.86           |
| 2017/01/26 16:36 | 1.93       | 111.94     | 3.85           |
| 2017/01/26 16:51 | 1.93       | 111.46     | 3.83           |
| 2017/01/26 17:06 | 1.93       | 111.94     | 3.85           |
| 2017/01/26 17:21 | 1.97       | 114.86     | 3.83           |
| 2017/01/26 17:36 | 2.00       | 117.71     | 3.85           |
| 2017/01/26 17:51 | 2.07       | 123.75     | 3.86           |
| 2017/01/26 18:06 | 2.08       | 124.10     | 3.83           |
| 2017/01/26 18:21 | 2.18       | 133.19     | 3.86           |
| 2017/01/26 18:36 | 2.09       | 126.11     | 3.86           |
| 2017/01/26 18:51 | 2.18       | 135.28     | 3.92           |
| 2017/01/26 19:06 | 2.18       | 135.97     | 3.94           |
| 2017/01/26 19:21 | 2.18       | 135.97     | 3.94           |
| 2017/01/26 19:36 | 2.19       | 137.22     | 3.94           |
| 2017/01/26 19:51 | 2.19       | 137.22     | 3.94           |
| 2017/01/26 20:06 | 2.19       | 136.46     | 3.92           |
| 2017/01/26 20:21 | 2.19       | 136.46     | 3.92           |
| 2017/01/26 20:36 | 2.18       | 133.75     | 3.87           |
| 2017/01/26 20:51 | 2.18       | 133.75     | 3.87           |
| 2017/01/26 21:06 | 2.18       | 128.47     | 3.72           |
| 2017/01/26 21:21 | 2.18       | 128.47     | 3.72           |
| 2017/01/26 21:36 | 2.11       | 126.74     | 3.84           |
| 2017/01/26 21:51 | 2.18       | 133.75     | 3.87           |
| 2017/01/26 22:06 | 2.21       | 142.01     | 4.04           |
| 2017/01/26 22:21 | 2.21       | 145.62     | 4.14           |
| 2017/01/26 22:36 | 2.21       | 142.01     | 4.04           |
| 2017/01/26 22:51 | 2.15       | 137.01     | 4.04           |
| 2017/01/26 23:06 | 2.09       | 125.97     | 3.85           |
| 2017/01/26 23:21 | 2.04       | 122.99     | 3.91           |
| 2017/01/26 23:36 | 2.04       | 121.25     | 3.85           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/26 23:51 | 2.04       | 121.25     | 3.85           |
| 2017/01/27 00:06 | 2.04       | 120.49     | 3.83           |
| 2017/01/27 00:21 | 2.11       | 126.25     | 3.83           |
| 2017/01/27 00:36 | 2.14       | 128.61     | 3.83           |
| 2017/01/27 00:51 | 2.19       | 133.33     | 3.83           |
| 2017/01/27 01:06 | 2.23       | 136.46     | 3.82           |
| 2017/01/27 01:21 | 2.30       | 142.43     | 3.82           |
| 2017/01/27 01:36 | 2.33       | 140.42     | 3.70           |
| 2017/01/27 01:51 | 2.36       | 142.71     | 3.70           |
| 2017/01/27 02:06 | 2.61       | 154.31     | 3.48           |
| 2017/01/27 02:21 | 2.64       | 154.58     | 3.43           |
| 2017/01/27 02:36 | 2.64       | 154.58     | 3.43           |
| 2017/01/27 02:51 | 2.64       | 156.53     | 3.48           |
| 2017/01/27 03:06 | 2.64       | 153.75     | 3.42           |
| 2017/01/27 03:21 | 2.62       | 149.93     | 3.36           |
| 2017/01/27 03:36 | 2.62       | 151.25     | 3.39           |
| 2017/01/27 03:51 | 2.58       | 147.99     | 3.39           |
| 2017/01/27 04:06 | 2.57       | 148.19     | 3.42           |
| 2017/01/27 04:21 | 2.57       | 148.19     | 3.42           |
| 2017/01/27 04:36 | 2.25       | 123.26     | 3.42           |
| 2017/01/27 04:51 | 2.16       | 117.99     | 3.45           |
| 2017/01/27 05:06 | 2.16       | 119.31     | 3.49           |
| 2017/01/27 05:21 | 2.15       | 118.26     | 3.49           |
| 2017/01/27 05:36 | 2.15       | 119.24     | 3.52           |
| 2017/01/27 05:51 | 2.16       | 120.28     | 3.52           |
| 2017/01/27 06:06 | 2.15       | 127.01     | 3.75           |
| 2017/01/27 06:21 | 2.15       | 129.10     | 3.81           |
| 2017/01/27 06:36 | 2.15       | 127.01     | 3.75           |
| 2017/01/27 06:51 | 2.14       | 131.25     | 3.90           |
| 2017/01/27 07:06 | 2.14       | 139.72     | 4.16           |
| 2017/01/27 07:21 | 2.14       | 139.72     | 4.16           |
| 2017/01/27 07:36 | 2.14       | 131.25     | 3.90           |
| 2017/01/27 07:51 | 2.51       | 175.00     | 4.16           |
| 2017/01/27 08:06 | 2.51       | 175.97     | 4.18           |
| 2017/01/27 08:21 | 2.65       | 217.43     | 4.80           |
| 2017/01/27 08:36 | 2.65       | 227.71     | 5.02           |
| 2017/01/27 08:51 | 2.65       | 217.43     | 4.80           |
| 2017/01/27 09:06 | 2.53       | 203.47     | 4.80           |
| 2017/01/27 09:21 | 2.53       | 203.47     | 4.80           |
| 2017/01/27 09:36 | 2.51       | 185.55     | 4.41           |
| 2017/01/27 09:51 | 2.39       | 166.53     | 4.25           |
| 2017/01/27 10:06 | 2.39       | 166.53     | 4.25           |
| 2017/01/27 10:21 | 2.22       | 138.61     | 3.91           |
| 2017/01/27 10:36 | 2.18       | 146.60     | 4.25           |
| 2017/01/27 10:51 | 2.18       | 146.60     | 4.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 11:06 | 2.18       | 146.60     | 4.25           |
| 2017/01/27 11:21 | 2.50       | 188.75     | 4.52           |
| 2017/01/27 11:36 | 2.50       | 188.75     | 4.52           |
| 2017/01/27 11:51 | 2.39       | 175.07     | 4.46           |
| 2017/01/27 12:06 | 2.39       | 175.07     | 4.46           |
| 2017/01/27 12:21 | 2.39       | 175.07     | 4.46           |
| 2017/01/27 12:36 | 2.14       | 150.00     | 4.46           |
| 2017/01/27 12:51 | 2.14       | 149.37     | 4.45           |
| 2017/01/27 13:06 | 2.14       | 145.69     | 4.34           |
| 2017/01/27 13:21 | 2.08       | 140.42     | 4.34           |
| 2017/01/27 13:36 | 2.08       | 136.60     | 4.22           |
| 2017/01/27 13:51 | 2.14       | 141.74     | 4.22           |
| 2017/01/27 14:06 | 2.09       | 135.56     | 4.15           |
| 2017/01/27 14:21 | 2.09       | 132.50     | 4.05           |
| 2017/01/27 14:36 | 2.01       | 125.21     | 4.05           |
| 2017/01/27 14:51 | 1.98       | 122.71     | 4.05           |
| 2017/01/27 15:06 | 1.98       | 115.00     | 3.80           |
| 2017/01/27 15:21 | 2.01       | 117.29     | 3.80           |
| 2017/01/27 15:36 | 1.91       | 116.67     | 4.05           |
| 2017/01/27 15:51 | 1.82       | 101.53     | 3.80           |
| 2017/01/27 16:06 | 1.79       | 99.37      | 3.80           |
| 2017/01/27 16:21 | 1.79       | 99.37      | 3.80           |
| 2017/01/27 16:36 | 1.82       | 108.89     | 4.07           |
| 2017/01/27 16:51 | 1.91       | 117.22     | 4.07           |
| 2017/01/27 17:06 | 1.91       | 115.07     | 4.00           |
| 2017/01/27 17:21 | 1.93       | 116.25     | 4.00           |
| 2017/01/27 17:36 | 1.93       | 116.25     | 4.00           |
| 2017/01/27 17:51 | 1.94       | 117.43     | 4.00           |
| 2017/01/27 18:06 | 1.94       | 117.43     | 4.00           |
| 2017/01/27 18:21 | 1.98       | 116.32     | 3.84           |
| 2017/01/27 18:36 | 1.98       | 119.17     | 3.94           |
| 2017/01/27 18:51 | 1.98       | 116.32     | 3.84           |
| 2017/01/27 19:06 | 1.98       | 116.32     | 3.84           |
| 2017/01/27 19:21 | 2.14       | 132.29     | 3.94           |
| 2017/01/27 19:36 | 2.14       | 138.96     | 4.14           |
| 2017/01/27 19:51 | 2.18       | 135.90     | 3.94           |
| 2017/01/27 20:06 | 2.18       | 135.90     | 3.94           |
| 2017/01/27 20:21 | 2.14       | 128.54     | 3.83           |
| 2017/01/27 20:36 | 2.18       | 132.08     | 3.83           |
| 2017/01/27 20:51 | 2.19       | 133.26     | 3.83           |
| 2017/01/27 21:06 | 2.19       | 133.26     | 3.83           |
| 2017/01/27 21:21 | 1.97       | 113.06     | 3.77           |
| 2017/01/27 21:36 | 1.97       | 113.06     | 3.77           |
| 2017/01/27 21:51 | 2.04       | 118.68     | 3.77           |
| 2017/01/27 22:06 | 2.12       | 129.03     | 3.88           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/27 22:21 | 2.04       | 122.22     | 3.88           |
| 2017/01/27 22:36 | 2.04       | 122.22     | 3.88           |
| 2017/01/27 22:51 | 2.04       | 122.22     | 3.88           |
| 2017/01/27 23:06 | 2.04       | 126.53     | 4.02           |
| 2017/01/27 23:21 | 2.01       | 124.10     | 4.02           |
| 2017/01/27 23:36 | 2.01       | 124.10     | 4.02           |
| 2017/01/27 23:51 | 2.01       | 124.37     | 4.03           |
| 2017/01/28 00:06 | 2.07       | 131.81     | 4.11           |
| 2017/01/28 00:21 | 2.01       | 126.87     | 4.11           |
| 2017/01/28 00:36 | 2.07       | 131.81     | 4.11           |
| 2017/01/28 00:51 | 2.07       | 131.81     | 4.11           |
| 2017/01/28 01:06 | 2.07       | 128.19     | 3.99           |
| 2017/01/28 01:21 | 1.98       | 120.97     | 3.99           |
| 2017/01/28 01:36 | 1.98       | 118.19     | 3.90           |
| 2017/01/28 01:51 | 1.94       | 113.19     | 3.85           |
| 2017/01/28 02:06 | 1.94       | 111.25     | 3.79           |
| 2017/01/28 02:21 | 1.94       | 106.04     | 3.61           |
| 2017/01/28 02:36 | 1.94       | 104.10     | 3.54           |
| 2017/01/28 02:51 | 1.98       | 107.29     | 3.54           |
| 2017/01/28 03:06 | 2.01       | 111.46     | 3.61           |
| 2017/01/28 03:21 | 2.01       | 107.92     | 3.50           |
| 2017/01/28 03:36 | 2.07       | 112.15     | 3.50           |
| 2017/01/28 03:51 | 2.08       | 113.68     | 3.51           |
| 2017/01/28 04:06 | 2.07       | 112.57     | 3.51           |
| 2017/01/28 04:21 | 2.08       | 116.67     | 3.60           |
| 2017/01/28 04:36 | 2.12       | 118.82     | 3.57           |
| 2017/01/28 04:51 | 2.12       | 118.82     | 3.57           |
| 2017/01/28 05:06 | 2.14       | 119.93     | 3.57           |
| 2017/01/28 05:21 | 2.12       | 119.17     | 3.58           |
| 2017/01/28 05:36 | 2.14       | 120.28     | 3.58           |
| 2017/01/28 05:51 | 2.16       | 124.51     | 3.64           |
| 2017/01/28 06:06 | 2.18       | 125.62     | 3.64           |
| 2017/01/28 06:21 | 2.18       | 127.71     | 3.70           |
| 2017/01/28 06:36 | 2.18       | 133.96     | 3.88           |
| 2017/01/28 06:51 | 2.16       | 132.78     | 3.88           |
| 2017/01/28 07:06 | 2.16       | 135.69     | 3.97           |
| 2017/01/28 07:21 | 2.14       | 133.26     | 3.97           |
| 2017/01/28 07:36 | 2.12       | 129.24     | 3.88           |
| 2017/01/28 07:51 | 2.00       | 118.19     | 3.87           |
| 2017/01/28 08:06 | 1.96       | 114.10     | 3.85           |
| 2017/01/28 08:21 | 1.89       | 108.40     | 3.85           |
| 2017/01/28 08:36 | 1.96       | 114.72     | 3.87           |
| 2017/01/28 08:51 | 1.96       | 114.10     | 3.85           |
| 2017/01/28 09:06 | 2.00       | 117.57     | 3.85           |
| 2017/01/28 09:21 | 2.57       | 166.81     | 3.85           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 09:36 | 2.57       | 166.81     | 3.85           |
| 2017/01/28 09:51 | 2.57       | 188.33     | 4.34           |
| 2017/01/28 10:06 | 2.58       | 202.50     | 4.63           |
| 2017/01/28 10:21 | 2.71       | 217.36     | 4.66           |
| 2017/01/28 10:36 | 2.71       | 217.36     | 4.66           |
| 2017/01/28 10:51 | 2.71       | 224.58     | 4.82           |
| 2017/01/28 11:06 | 2.71       | 217.36     | 4.66           |
| 2017/01/28 11:21 | 2.79       | 226.60     | 4.66           |
| 2017/01/28 11:36 | 2.79       | 226.60     | 4.66           |
| 2017/01/28 11:51 | 2.76       | 223.54     | 4.66           |
| 2017/01/28 12:06 | 2.80       | 231.74     | 4.73           |
| 2017/01/28 12:21 | 2.80       | 231.74     | 4.73           |
| 2017/01/28 12:36 | 2.76       | 227.01     | 4.73           |
| 2017/01/28 12:51 | 2.76       | 227.01     | 4.73           |
| 2017/01/28 13:06 | 2.76       | 227.01     | 4.73           |
| 2017/01/28 13:21 | 2.76       | 220.21     | 4.59           |
| 2017/01/28 13:36 | 2.69       | 206.25     | 4.45           |
| 2017/01/28 13:51 | 2.62       | 196.11     | 4.39           |
| 2017/01/28 14:06 | 2.48       | 181.94     | 4.39           |
| 2017/01/28 14:21 | 2.30       | 159.44     | 4.27           |
| 2017/01/28 14:36 | 2.26       | 154.58     | 4.25           |
| 2017/01/28 14:51 | 2.18       | 143.54     | 4.16           |
| 2017/01/28 15:06 | 2.18       | 143.54     | 4.16           |
| 2017/01/28 15:21 | 2.12       | 140.35     | 4.21           |
| 2017/01/28 15:36 | 2.05       | 129.31     | 4.07           |
| 2017/01/28 15:51 | 2.05       | 129.31     | 4.07           |
| 2017/01/28 16:06 | 2.05       | 129.79     | 4.08           |
| 2017/01/28 16:21 | 2.05       | 129.79     | 4.08           |
| 2017/01/28 16:36 | 2.05       | 132.01     | 4.15           |
| 2017/01/28 16:51 | 2.09       | 137.78     | 4.21           |
| 2017/01/28 17:06 | 2.21       | 145.97     | 4.15           |
| 2017/01/28 17:21 | 2.32       | 165.49     | 4.40           |
| 2017/01/28 17:36 | 2.34       | 171.81     | 4.49           |
| 2017/01/28 17:51 | 2.48       | 186.04     | 4.49           |
| 2017/01/28 18:06 | 2.58       | 199.65     | 4.57           |
| 2017/01/28 18:21 | 2.58       | 192.15     | 4.40           |
| 2017/01/28 18:36 | 2.58       | 185.97     | 4.26           |
| 2017/01/28 18:51 | 2.58       | 185.97     | 4.26           |
| 2017/01/28 19:06 | 2.58       | 183.75     | 4.20           |
| 2017/01/28 19:21 | 2.53       | 160.56     | 3.79           |
| 2017/01/28 19:36 | 2.34       | 144.86     | 3.79           |
| 2017/01/28 19:51 | 2.22       | 134.24     | 3.79           |
| 2017/01/28 20:06 | 2.16       | 130.76     | 3.82           |
| 2017/01/28 20:21 | 2.16       | 136.04     | 3.98           |
| 2017/01/28 20:36 | 2.16       | 130.76     | 3.82           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/28 20:51 | 2.22       | 135.49     | 3.82           |
| 2017/01/28 21:06 | 2.29       | 147.15     | 3.98           |
| 2017/01/28 21:21 | 2.33       | 150.90     | 3.98           |
| 2017/01/28 21:36 | 2.33       | 152.08     | 4.01           |
| 2017/01/28 21:51 | 2.34       | 152.15     | 3.98           |
| 2017/01/28 22:06 | 2.47       | 170.42     | 4.14           |
| 2017/01/28 22:21 | 2.47       | 170.42     | 4.14           |
| 2017/01/28 22:36 | 2.48       | 179.03     | 4.32           |
| 2017/01/28 22:51 | 2.48       | 179.03     | 4.32           |
| 2017/01/28 23:06 | 2.48       | 179.03     | 4.32           |
| 2017/01/28 23:21 | 2.57       | 172.64     | 3.98           |
| 2017/01/28 23:36 | 2.90       | 214.65     | 4.19           |
| 2017/01/28 23:51 | 2.90       | 214.65     | 4.19           |
| 2017/01/29 00:06 | 2.84       | 209.03     | 4.19           |
| 2017/01/29 00:21 | 2.91       | 211.46     | 4.10           |
| 2017/01/29 00:36 | 3.05       | 217.36     | 3.96           |
| 2017/01/29 00:51 | 3.05       | 206.25     | 3.75           |
| 2017/01/29 01:06 | 2.91       | 211.46     | 4.10           |
| 2017/01/29 01:21 | 3.12       | 223.19     | 3.94           |
| 2017/01/29 01:36 | 3.15       | 215.07     | 3.75           |
| 2017/01/29 01:51 | 3.18       | 214.72     | 3.70           |
| 2017/01/29 02:06 | 3.15       | 212.22     | 3.70           |
| 2017/01/29 02:21 | 3.08       | 205.97     | 3.70           |
| 2017/01/29 02:36 | 3.18       | 213.47     | 3.68           |
| 2017/01/29 02:51 | 3.18       | 207.64     | 3.58           |
| 2017/01/29 03:06 | 3.08       | 199.17     | 3.58           |
| 2017/01/29 03:21 | 3.08       | 195.00     | 3.51           |
| 2017/01/29 03:36 | 3.08       | 197.01     | 3.54           |
| 2017/01/29 03:51 | 2.89       | 180.42     | 3.54           |
| 2017/01/29 04:06 | 2.89       | 180.42     | 3.54           |
| 2017/01/29 04:21 | 2.89       | 180.42     | 3.54           |
| 2017/01/29 04:36 | 3.18       | 205.42     | 3.54           |
| 2017/01/29 04:51 | 3.18       | 193.33     | 3.33           |
| 2017/01/29 05:06 | 2.87       | 169.17     | 3.34           |
| 2017/01/29 05:21 | 2.87       | 168.68     | 3.33           |
| 2017/01/29 05:36 | 2.93       | 173.61     | 3.34           |
| 2017/01/29 05:51 | 2.93       | 173.61     | 3.34           |
| 2017/01/29 06:06 | 2.93       | 173.61     | 3.34           |
| 2017/01/29 06:21 | 2.87       | 169.44     | 3.35           |
| 2017/01/29 06:36 | 2.82       | 179.72     | 3.65           |
| 2017/01/29 06:51 | 2.91       | 188.19     | 3.65           |
| 2017/01/29 07:06 | 2.91       | 188.89     | 3.66           |
| 2017/01/29 07:21 | 2.82       | 180.35     | 3.66           |
| 2017/01/29 07:36 | 2.79       | 177.92     | 3.66           |
| 2017/01/29 07:51 | 2.78       | 182.71     | 3.78           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 08:06 | 2.78       | 182.71     | 3.78           |
| 2017/01/29 08:21 | 2.78       | 182.71     | 3.78           |
| 2017/01/29 08:36 | 2.73       | 193.68     | 4.10           |
| 2017/01/29 08:51 | 2.71       | 190.97     | 4.10           |
| 2017/01/29 09:06 | 2.62       | 194.10     | 4.34           |
| 2017/01/29 09:21 | 2.62       | 194.10     | 4.34           |
| 2017/01/29 09:36 | 2.62       | 194.10     | 4.34           |
| 2017/01/29 09:51 | 2.62       | 199.58     | 4.47           |
| 2017/01/29 10:06 | 2.48       | 185.21     | 4.47           |
| 2017/01/29 10:21 | 2.62       | 201.80     | 4.52           |
| 2017/01/29 10:36 | 2.62       | 194.10     | 4.34           |
| 2017/01/29 10:51 | 2.64       | 187.36     | 4.16           |
| 2017/01/29 11:06 | 2.64       | 195.49     | 4.34           |
| 2017/01/29 11:21 | 2.64       | 216.94     | 4.82           |
| 2017/01/29 11:36 | 2.64       | 216.94     | 4.82           |
| 2017/01/29 11:51 | 2.64       | 219.30     | 4.87           |
| 2017/01/29 12:06 | 2.64       | 219.30     | 4.87           |
| 2017/01/29 12:21 | 2.61       | 221.04     | 4.98           |
| 2017/01/29 12:36 | 2.61       | 224.86     | 5.07           |
| 2017/01/29 12:51 | 2.64       | 228.19     | 5.07           |
| 2017/01/29 13:06 | 2.64       | 224.24     | 4.98           |
| 2017/01/29 13:21 | 2.61       | 210.90     | 4.75           |
| 2017/01/29 13:36 | 2.51       | 193.40     | 4.59           |
| 2017/01/29 13:51 | 2.44       | 185.62     | 4.58           |
| 2017/01/29 14:06 | 2.44       | 181.60     | 4.48           |
| 2017/01/29 14:21 | 2.30       | 158.33     | 4.24           |
| 2017/01/29 14:36 | 2.30       | 158.33     | 4.24           |
| 2017/01/29 14:51 | 2.26       | 154.37     | 4.24           |
| 2017/01/29 15:06 | 2.22       | 150.49     | 4.25           |
| 2017/01/29 15:21 | 2.14       | 142.57     | 4.24           |
| 2017/01/29 15:36 | 2.22       | 150.42     | 4.24           |
| 2017/01/29 15:51 | 2.26       | 154.44     | 4.25           |
| 2017/01/29 16:06 | 2.22       | 150.49     | 4.25           |
| 2017/01/29 16:21 | 2.22       | 138.40     | 3.90           |
| 2017/01/29 16:36 | 2.32       | 146.94     | 3.90           |
| 2017/01/29 16:51 | 2.54       | 166.81     | 3.90           |
| 2017/01/29 17:06 | 2.54       | 181.80     | 4.25           |
| 2017/01/29 17:21 | 2.55       | 183.19     | 4.25           |
| 2017/01/29 17:36 | 2.65       | 192.85     | 4.25           |
| 2017/01/29 17:51 | 2.65       | 201.67     | 4.45           |
| 2017/01/29 18:06 | 2.65       | 201.67     | 4.45           |
| 2017/01/29 18:21 | 2.54       | 186.46     | 4.36           |
| 2017/01/29 18:36 | 2.61       | 193.54     | 4.36           |
| 2017/01/29 18:51 | 2.64       | 196.39     | 4.36           |
| 2017/01/29 19:06 | 2.61       | 200.49     | 4.52           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/29 19:21 | 2.39       | 174.65     | 4.45           |
| 2017/01/29 19:36 | 2.34       | 167.01     | 4.36           |
| 2017/01/29 19:51 | 2.39       | 170.69     | 4.35           |
| 2017/01/29 20:06 | 2.39       | 174.65     | 4.45           |
| 2017/01/29 20:21 | 2.37       | 170.00     | 4.37           |
| 2017/01/29 20:36 | 2.34       | 167.22     | 4.37           |
| 2017/01/29 20:51 | 2.32       | 163.89     | 4.35           |
| 2017/01/29 21:06 | 2.32       | 163.89     | 4.35           |
| 2017/01/29 21:21 | 2.32       | 164.51     | 4.37           |
| 2017/01/29 21:36 | 2.32       | 164.51     | 4.37           |
| 2017/01/29 21:51 | 2.37       | 170.00     | 4.37           |
| 2017/01/29 22:06 | 2.25       | 147.99     | 4.10           |
| 2017/01/29 22:21 | 2.21       | 144.17     | 4.10           |
| 2017/01/29 22:36 | 2.21       | 153.61     | 4.37           |
| 2017/01/29 22:51 | 2.05       | 131.60     | 4.14           |
| 2017/01/29 23:06 | 2.03       | 127.85     | 4.10           |
| 2017/01/29 23:21 | 2.00       | 125.42     | 4.10           |
| 2017/01/29 23:36 | 2.00       | 125.42     | 4.10           |
| 2017/01/29 23:51 | 2.00       | 124.31     | 4.07           |
| 2017/01/30 00:06 | 2.00       | 120.69     | 3.95           |
| 2017/01/30 00:21 | 2.00       | 120.00     | 3.92           |
| 2017/01/30 00:36 | 2.00       | 107.78     | 3.52           |
| 2017/01/30 00:51 | 2.00       | 117.78     | 3.85           |
| 2017/01/30 01:06 | 1.91       | 101.46     | 3.52           |
| 2017/01/30 01:21 | 1.76       | 88.96      | 3.48           |
| 2017/01/30 01:36 | 1.76       | 84.93      | 3.32           |
| 2017/01/30 01:51 | 1.72       | 80.21      | 3.24           |
| 2017/01/30 02:06 | 1.65       | 75.62      | 3.24           |
| 2017/01/30 02:21 | 1.65       | 74.44      | 3.19           |
| 2017/01/30 02:36 | 1.65       | 74.44      | 3.19           |
| 2017/01/30 02:51 | 1.65       | 74.44      | 3.19           |
| 2017/01/30 03:06 | 1.68       | 76.25      | 3.19           |
| 2017/01/30 03:21 | 1.68       | 76.25      | 3.19           |
| 2017/01/30 03:36 | 1.73       | 79.86      | 3.19           |
| 2017/01/30 03:51 | 1.78       | 84.31      | 3.26           |
| 2017/01/30 04:06 | 1.73       | 82.57      | 3.30           |
| 2017/01/30 04:21 | 1.78       | 85.56      | 3.31           |
| 2017/01/30 04:36 | 1.78       | 85.42      | 3.30           |
| 2017/01/30 04:51 | 1.68       | 79.03      | 3.31           |
| 2017/01/30 05:06 | 1.78       | 86.81      | 3.36           |
| 2017/01/30 05:21 | 1.78       | 87.50      | 3.38           |
| 2017/01/30 05:36 | 1.82       | 93.26      | 3.49           |
| 2017/01/30 05:51 | 1.87       | 107.22     | 3.84           |
| 2017/01/30 06:06 | 1.82       | 107.15     | 4.01           |
| 2017/01/30 06:21 | 1.87       | 112.57     | 4.03           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 06:36 | 1.90       | 114.93     | 4.03           |
| 2017/01/30 06:51 | 1.96       | 122.78     | 4.14           |
| 2017/01/30 07:06 | 2.03       | 134.37     | 4.31           |
| 2017/01/30 07:21 | 2.30       | 162.64     | 4.36           |
| 2017/01/30 07:36 | 2.64       | 200.42     | 4.45           |
| 2017/01/30 07:51 | 2.64       | 200.49     | 4.46           |
| 2017/01/30 08:06 | 2.80       | 217.99     | 4.45           |
| 2017/01/30 08:21 | 2.80       | 217.99     | 4.45           |
| 2017/01/30 08:36 | 2.80       | 217.99     | 4.45           |
| 2017/01/30 08:51 | 2.68       | 204.86     | 4.46           |
| 2017/01/30 09:06 | 2.61       | 197.99     | 4.46           |
| 2017/01/30 09:21 | 2.54       | 190.76     | 4.46           |
| 2017/01/30 09:36 | 2.43       | 175.42     | 4.37           |
| 2017/01/30 09:51 | 2.43       | 179.37     | 4.46           |
| 2017/01/30 10:06 | 2.43       | 179.37     | 4.46           |
| 2017/01/30 10:21 | 2.41       | 177.01     | 4.44           |
| 2017/01/30 10:36 | 2.33       | 168.61     | 4.44           |
| 2017/01/30 10:51 | 2.29       | 151.04     | 4.08           |
| 2017/01/30 11:06 | 2.28       | 149.72     | 4.08           |
| 2017/01/30 11:21 | 2.25       | 147.22     | 4.08           |
| 2017/01/30 11:36 | 2.21       | 143.40     | 4.08           |
| 2017/01/30 11:51 | 2.04       | 131.53     | 4.18           |
| 2017/01/30 12:06 | 1.96       | 119.03     | 4.01           |
| 2017/01/30 12:21 | 1.90       | 114.24     | 4.01           |
| 2017/01/30 12:36 | 1.96       | 119.03     | 4.01           |
| 2017/01/30 12:51 | 1.90       | 110.56     | 3.88           |
| 2017/01/30 13:06 | 1.91       | 120.35     | 4.18           |
| 2017/01/30 13:21 | 1.79       | 101.46     | 3.88           |
| 2017/01/30 13:36 | 1.79       | 101.46     | 3.88           |
| 2017/01/30 13:51 | 1.90       | 110.56     | 3.88           |
| 2017/01/30 14:06 | 1.91       | 111.46     | 3.87           |
| 2017/01/30 14:21 | 1.90       | 110.07     | 3.86           |
| 2017/01/30 14:36 | 1.90       | 106.32     | 3.73           |
| 2017/01/30 14:51 | 1.86       | 102.99     | 3.73           |
| 2017/01/30 15:06 | 1.90       | 106.32     | 3.73           |
| 2017/01/30 15:21 | 1.86       | 102.99     | 3.73           |
| 2017/01/30 15:36 | 1.86       | 106.04     | 3.84           |
| 2017/01/30 15:51 | 1.80       | 101.53     | 3.84           |
| 2017/01/30 16:06 | 1.86       | 113.40     | 4.11           |
| 2017/01/30 16:21 | 1.79       | 110.62     | 4.23           |
| 2017/01/30 16:36 | 1.79       | 107.43     | 4.11           |
| 2017/01/30 16:51 | 1.75       | 103.89     | 4.11           |
| 2017/01/30 17:06 | 1.75       | 97.43      | 3.85           |
| 2017/01/30 17:21 | 1.75       | 105.49     | 4.17           |
| 2017/01/30 17:36 | 1.73       | 104.31     | 4.17           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/30 17:51 | 1.73       | 104.31     | 4.17           |
| 2017/01/30 18:06 | 1.75       | 99.72      | 3.94           |
| 2017/01/30 18:21 | 1.84       | 107.71     | 3.94           |
| 2017/01/30 18:36 | 1.86       | 105.69     | 3.83           |
| 2017/01/30 18:51 | 1.90       | 112.29     | 3.94           |
| 2017/01/30 19:06 | 1.91       | 113.47     | 3.94           |
| 2017/01/30 19:21 | 1.96       | 125.42     | 4.23           |
| 2017/01/30 19:36 | 1.96       | 125.42     | 4.23           |
| 2017/01/30 19:51 | 2.11       | 141.60     | 4.29           |
| 2017/01/30 20:06 | 2.22       | 152.15     | 4.29           |
| 2017/01/30 20:21 | 2.22       | 154.93     | 4.37           |
| 2017/01/30 20:36 | 2.28       | 162.50     | 4.43           |
| 2017/01/30 20:51 | 2.40       | 175.07     | 4.43           |
| 2017/01/30 21:06 | 2.41       | 177.92     | 4.46           |
| 2017/01/30 21:21 | 2.41       | 177.92     | 4.46           |
| 2017/01/30 21:36 | 2.41       | 177.22     | 4.45           |
| 2017/01/30 21:51 | 2.28       | 163.89     | 4.46           |
| 2017/01/30 22:06 | 2.32       | 172.08     | 4.57           |
| 2017/01/30 22:21 | 2.28       | 171.11     | 4.66           |
| 2017/01/30 22:36 | 2.07       | 146.67     | 4.57           |
| 2017/01/30 22:51 | 2.05       | 141.32     | 4.45           |
| 2017/01/30 23:06 | 2.01       | 133.40     | 4.32           |
| 2017/01/30 23:21 | 2.01       | 133.40     | 4.32           |
| 2017/01/30 23:36 | 1.98       | 129.72     | 4.28           |
| 2017/01/30 23:51 | 1.96       | 127.15     | 4.28           |
| 2017/01/31 00:06 | 1.91       | 113.75     | 3.95           |
| 2017/01/31 00:21 | 1.91       | 120.35     | 4.18           |
| 2017/01/31 00:36 | 1.91       | 120.35     | 4.18           |
| 2017/01/31 00:51 | 1.91       | 113.75     | 3.95           |
| 2017/01/31 01:06 | 1.82       | 105.69     | 3.95           |
| 2017/01/31 01:21 | 1.72       | 92.29      | 3.73           |
| 2017/01/31 01:36 | 1.57       | 75.21      | 3.47           |
| 2017/01/31 01:51 | 1.54       | 72.29      | 3.42           |
| 2017/01/31 02:06 | 1.54       | 71.60      | 3.39           |
| 2017/01/31 02:21 | 1.48       | 63.89      | 3.19           |
| 2017/01/31 02:36 | 1.32       | 53.82      | 3.19           |
| 2017/01/31 02:51 | 1.21       | 47.36      | 3.19           |
| 2017/01/31 03:06 | 1.07       | 38.12      | 3.07           |
| 2017/01/31 03:21 | 1.00       | 34.58      | 3.07           |
| 2017/01/31 03:36 | 0.90       | 29.44      | 3.04           |
| 2017/01/31 03:51 | 0.90       | 29.44      | 3.04           |
| 2017/01/31 04:06 | 0.90       | 29.79      | 3.07           |
| 2017/01/31 04:21 | 0.90       | 29.79      | 3.07           |
| 2017/01/31 04:36 | 1.22       | 48.12      | 3.19           |
| 2017/01/31 04:51 | 1.23       | 51.53      | 3.36           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 05:06 | 1.25       | 52.43      | 3.36           |
| 2017/01/31 05:21 | 1.29       | 57.99      | 3.54           |
| 2017/01/31 05:36 | 1.29       | 58.06      | 3.55           |
| 2017/01/31 05:51 | 1.43       | 68.96      | 3.64           |
| 2017/01/31 06:06 | 1.57       | 82.01      | 3.79           |
| 2017/01/31 06:21 | 1.75       | 96.87      | 3.83           |
| 2017/01/31 06:36 | 1.79       | 106.11     | 4.06           |
| 2017/01/31 06:51 | 1.82       | 109.37     | 4.09           |
| 2017/01/31 07:06 | 2.00       | 128.96     | 4.22           |
| 2017/01/31 07:21 | 2.04       | 145.28     | 4.61           |
| 2017/01/31 07:36 | 2.30       | 172.22     | 4.61           |
| 2017/01/31 07:51 | 2.47       | 189.79     | 4.61           |
| 2017/01/31 08:06 | 2.73       | 220.62     | 4.66           |
| 2017/01/31 08:21 | 2.73       | 220.62     | 4.66           |
| 2017/01/31 08:36 | 2.73       | 220.62     | 4.66           |
| 2017/01/31 08:51 | 2.72       | 219.03     | 4.66           |
| 2017/01/31 09:06 | 2.65       | 218.89     | 4.83           |
| 2017/01/31 09:21 | 2.65       | 218.89     | 4.83           |
| 2017/01/31 09:36 | 2.65       | 218.89     | 4.83           |
| 2017/01/31 09:51 | 2.65       | 215.07     | 4.75           |
| 2017/01/31 10:06 | 2.62       | 210.76     | 4.72           |
| 2017/01/31 10:21 | 2.62       | 210.76     | 4.72           |
| 2017/01/31 10:36 | 2.51       | 178.89     | 4.25           |
| 2017/01/31 10:51 | 2.48       | 171.39     | 4.14           |
| 2017/01/31 11:06 | 2.47       | 174.79     | 4.25           |
| 2017/01/31 11:21 | 2.41       | 169.37     | 4.25           |
| 2017/01/31 11:36 | 2.33       | 161.32     | 4.25           |
| 2017/01/31 11:51 | 2.33       | 160.07     | 4.22           |
| 2017/01/31 12:06 | 2.30       | 157.43     | 4.22           |
| 2017/01/31 12:21 | 2.28       | 154.79     | 4.22           |
| 2017/01/31 12:36 | 2.23       | 150.83     | 4.22           |
| 2017/01/31 12:51 | 2.22       | 144.10     | 4.06           |
| 2017/01/31 13:06 | 2.07       | 130.35     | 4.06           |
| 2017/01/31 13:21 | 2.07       | 129.79     | 4.05           |
| 2017/01/31 13:36 | 2.00       | 123.68     | 4.05           |
| 2017/01/31 13:51 | 2.00       | 122.22     | 4.00           |
| 2017/01/31 14:06 | 2.00       | 120.49     | 3.94           |
| 2017/01/31 14:21 | 1.91       | 115.07     | 4.00           |
| 2017/01/31 14:36 | 1.91       | 118.19     | 4.11           |
| 2017/01/31 14:51 | 1.91       | 115.07     | 4.00           |
| 2017/01/31 15:06 | 1.94       | 120.76     | 4.11           |
| 2017/01/31 15:21 | 1.94       | 118.82     | 4.04           |
| 2017/01/31 15:36 | 1.98       | 122.43     | 4.04           |
| 2017/01/31 15:51 | 1.94       | 118.82     | 4.04           |
| 2017/01/31 16:06 | 1.98       | 122.43     | 4.04           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/01/31 16:21 | 2.09       | 132.15     | 4.04           |
| 2017/01/31 16:36 | 2.09       | 132.15     | 4.04           |
| 2017/01/31 16:51 | 2.03       | 118.06     | 3.79           |
| 2017/01/31 17:06 | 2.03       | 118.06     | 3.79           |
| 2017/01/31 17:21 | 2.16       | 140.56     | 4.11           |
| 2017/01/31 17:36 | 2.18       | 150.35     | 4.35           |
| 2017/01/31 17:51 | 2.18       | 142.64     | 4.13           |
| 2017/01/31 18:06 | 2.08       | 133.82     | 4.13           |
| 2017/01/31 18:21 | 2.28       | 159.79     | 4.35           |
| 2017/01/31 18:36 | 2.28       | 159.79     | 4.35           |
| 2017/01/31 18:51 | 2.29       | 163.26     | 4.41           |
| 2017/01/31 19:06 | 2.16       | 141.39     | 4.13           |
| 2017/01/31 19:21 | 2.15       | 140.14     | 4.13           |
| 2017/01/31 19:36 | 2.16       | 149.03     | 4.35           |
| 2017/01/31 19:51 | 2.29       | 161.18     | 4.35           |
| 2017/01/31 20:06 | 2.29       | 161.18     | 4.35           |
| 2017/01/31 20:21 | 2.47       | 179.10     | 4.35           |
| 2017/01/31 20:36 | 2.65       | 197.36     | 4.35           |
| 2017/01/31 20:51 | 2.65       | 202.99     | 4.48           |
| 2017/01/31 21:06 | 2.65       | 204.10     | 4.50           |
| 2017/01/31 21:21 | 2.65       | 204.10     | 4.50           |
| 2017/01/31 21:36 | 2.58       | 196.80     | 4.50           |
| 2017/01/31 21:51 | 2.55       | 192.85     | 4.48           |
| 2017/01/31 22:06 | 2.51       | 188.47     | 4.48           |
| 2017/01/31 22:21 | 2.44       | 180.69     | 4.46           |
| 2017/01/31 22:36 | 2.39       | 174.10     | 4.44           |
| 2017/01/31 22:51 | 2.36       | 162.29     | 4.21           |
| 2017/01/31 23:06 | 2.36       | 162.29     | 4.21           |
| 2017/01/31 23:21 | 2.29       | 155.62     | 4.21           |
| 2017/01/31 23:36 | 2.29       | 152.78     | 4.13           |
| 2017/01/31 23:51 | 2.23       | 147.64     | 4.13           |
| 2017/02/01 00:06 | 2.19       | 143.82     | 4.13           |
| 2017/02/01 00:21 | 2.19       | 147.64     | 4.24           |
| 2017/02/01 00:36 | 2.18       | 146.39     | 4.24           |
| 2017/02/01 00:51 | 2.08       | 128.75     | 3.98           |
| 2017/02/01 01:06 | 2.08       | 128.75     | 3.98           |
| 2017/02/01 01:21 | 2.08       | 128.75     | 3.98           |
| 2017/02/01 01:36 | 2.08       | 121.25     | 3.74           |
| 2017/02/01 01:51 | 2.34       | 136.46     | 3.57           |
| 2017/02/01 02:06 | 2.34       | 134.86     | 3.52           |
| 2017/02/01 02:21 | 2.48       | 142.15     | 3.43           |
| 2017/02/01 02:36 | 2.48       | 139.93     | 3.38           |
| 2017/02/01 02:51 | 2.34       | 126.81     | 3.31           |
| 2017/02/01 03:06 | 2.26       | 118.40     | 3.25           |
| 2017/02/01 03:21 | 2.26       | 117.50     | 3.23           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 03:36 | 2.12       | 107.50     | 3.23           |
| 2017/02/01 03:51 | 2.12       | 108.33     | 3.25           |
| 2017/02/01 04:06 | 2.12       | 108.33     | 3.25           |
| 2017/02/01 04:21 | 2.12       | 111.60     | 3.35           |
| 2017/02/01 04:36 | 2.12       | 114.37     | 3.43           |
| 2017/02/01 04:51 | 2.28       | 126.04     | 3.43           |
| 2017/02/01 05:06 | 2.28       | 126.25     | 3.44           |
| 2017/02/01 05:21 | 2.58       | 150.35     | 3.44           |
| 2017/02/01 05:36 | 2.58       | 150.35     | 3.44           |
| 2017/02/01 05:51 | 2.58       | 160.83     | 3.68           |
| 2017/02/01 06:06 | 2.58       | 161.94     | 3.70           |
| 2017/02/01 06:21 | 2.58       | 178.06     | 4.07           |
| 2017/02/01 06:36 | 2.44       | 164.93     | 4.07           |
| 2017/02/01 06:51 | 2.44       | 164.93     | 4.07           |
| 2017/02/01 07:06 | 2.44       | 170.62     | 4.21           |
| 2017/02/01 07:21 | 2.59       | 188.54     | 4.28           |
| 2017/02/01 07:36 | 2.62       | 206.39     | 4.62           |
| 2017/02/01 07:51 | 2.75       | 221.74     | 4.66           |
| 2017/02/01 08:06 | 2.75       | 225.28     | 4.73           |
| 2017/02/01 08:21 | 2.75       | 225.28     | 4.73           |
| 2017/02/01 08:36 | 2.76       | 226.80     | 4.73           |
| 2017/02/01 08:51 | 2.76       | 239.17     | 4.99           |
| 2017/02/01 09:06 | 2.75       | 237.50     | 4.99           |
| 2017/02/01 09:21 | 2.75       | 235.49     | 4.95           |
| 2017/02/01 09:36 | 2.75       | 210.49     | 4.42           |
| 2017/02/01 09:51 | 2.75       | 210.49     | 4.42           |
| 2017/02/01 10:06 | 2.78       | 234.44     | 4.86           |
| 2017/02/01 10:21 | 2.75       | 231.25     | 4.86           |
| 2017/02/01 10:36 | 2.75       | 210.49     | 4.42           |
| 2017/02/01 10:51 | 2.78       | 228.96     | 4.74           |
| 2017/02/01 11:06 | 2.78       | 213.40     | 4.42           |
| 2017/02/01 11:21 | 2.73       | 202.57     | 4.28           |
| 2017/02/01 11:36 | 2.68       | 196.94     | 4.28           |
| 2017/02/01 11:51 | 2.68       | 192.71     | 4.19           |
| 2017/02/01 12:06 | 2.68       | 189.86     | 4.13           |
| 2017/02/01 12:21 | 2.59       | 179.24     | 4.07           |
| 2017/02/01 12:36 | 2.48       | 168.75     | 4.07           |
| 2017/02/01 12:51 | 2.58       | 177.92     | 4.07           |
| 2017/02/01 13:06 | 2.58       | 188.19     | 4.31           |
| 2017/02/01 13:21 | 2.46       | 168.82     | 4.14           |
| 2017/02/01 13:36 | 2.29       | 159.37     | 4.31           |
| 2017/02/01 13:51 | 2.34       | 164.79     | 4.31           |
| 2017/02/01 14:06 | 2.46       | 187.57     | 4.60           |
| 2017/02/01 14:21 | 2.58       | 200.83     | 4.60           |
| 2017/02/01 14:36 | 2.46       | 187.22     | 4.59           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/01 14:51 | 2.46       | 170.42     | 4.18           |
| 2017/02/01 15:06 | 2.40       | 165.14     | 4.18           |
| 2017/02/01 15:21 | 2.40       | 165.14     | 4.18           |
| 2017/02/01 15:36 | 2.40       | 165.14     | 4.18           |
| 2017/02/01 15:51 | 2.21       | 144.17     | 4.10           |
| 2017/02/01 16:06 | 2.21       | 144.17     | 4.10           |
| 2017/02/01 16:21 | 2.08       | 131.39     | 4.06           |
| 2017/02/01 16:36 | 2.08       | 128.26     | 3.96           |
| 2017/02/01 16:51 | 2.08       | 128.26     | 3.96           |
| 2017/02/01 17:06 | 2.19       | 137.99     | 3.96           |
| 2017/02/01 17:21 | 2.22       | 143.89     | 4.06           |
| 2017/02/01 17:36 | 2.28       | 160.56     | 4.37           |
| 2017/02/01 17:51 | 2.28       | 160.56     | 4.37           |
| 2017/02/01 18:06 | 2.28       | 160.56     | 4.37           |
| 2017/02/01 18:21 | 2.28       | 160.56     | 4.37           |
| 2017/02/01 18:36 | 2.28       | 152.08     | 4.14           |
| 2017/02/01 18:51 | 2.64       | 186.53     | 4.14           |
| 2017/02/01 19:06 | 2.66       | 182.29     | 3.99           |
| 2017/02/01 19:21 | 2.66       | 182.29     | 3.99           |
| 2017/02/01 19:36 | 2.64       | 183.96     | 4.09           |
| 2017/02/01 19:51 | 2.71       | 193.26     | 4.14           |
| 2017/02/01 20:06 | 2.73       | 193.33     | 4.09           |
| 2017/02/01 20:21 | 2.73       | 193.33     | 4.09           |
| 2017/02/01 20:36 | 2.73       | 193.33     | 4.09           |
| 2017/02/01 20:51 | 2.66       | 186.60     | 4.09           |
| 2017/02/01 21:06 | 2.64       | 183.96     | 4.09           |
| 2017/02/01 21:21 | 2.64       | 162.29     | 3.61           |
| 2017/02/01 21:36 | 2.62       | 159.10     | 3.56           |
| 2017/02/01 21:51 | 2.47       | 148.26     | 3.61           |
| 2017/02/01 22:06 | 2.47       | 178.26     | 4.34           |
| 2017/02/01 22:21 | 2.47       | 169.17     | 4.11           |
| 2017/02/01 22:36 | 2.47       | 169.17     | 4.11           |
| 2017/02/01 22:51 | 2.32       | 153.06     | 4.07           |
| 2017/02/01 23:06 | 2.61       | 180.35     | 4.07           |
| 2017/02/01 23:21 | 2.61       | 182.43     | 4.11           |
| 2017/02/01 23:36 | 2.61       | 180.35     | 4.07           |
| 2017/02/01 23:51 | 2.61       | 180.35     | 4.07           |
| 2017/02/02 00:06 | 2.43       | 163.33     | 4.07           |
| 2017/02/02 00:21 | 2.36       | 156.87     | 4.07           |
| 2017/02/02 00:36 | 2.36       | 158.19     | 4.10           |
| 2017/02/02 00:51 | 2.36       | 158.19     | 4.10           |
| 2017/02/02 01:06 | 2.43       | 161.81     | 4.03           |
| 2017/02/02 01:21 | 2.51       | 169.58     | 4.03           |
| 2017/02/02 01:36 | 2.51       | 160.56     | 3.81           |
| 2017/02/02 01:51 | 2.51       | 153.06     | 3.64           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 02:06 | 2.80       | 168.61     | 3.45           |
| 2017/02/02 02:21 | 2.80       | 165.28     | 3.38           |
| 2017/02/02 02:36 | 2.80       | 161.67     | 3.30           |
| 2017/02/02 02:51 | 2.15       | 112.01     | 3.30           |
| 2017/02/02 03:06 | 2.05       | 104.86     | 3.30           |
| 2017/02/02 03:21 | 1.86       | 88.96      | 3.22           |
| 2017/02/02 03:36 | 1.86       | 85.62      | 3.10           |
| 2017/02/02 03:51 | 1.86       | 85.62      | 3.10           |
| 2017/02/02 04:06 | 1.86       | 88.68      | 3.21           |
| 2017/02/02 04:21 | 2.03       | 100.14     | 3.21           |
| 2017/02/02 04:36 | 2.08       | 104.03     | 3.21           |
| 2017/02/02 04:51 | 2.25       | 133.12     | 3.69           |
| 2017/02/02 05:06 | 2.33       | 142.57     | 3.76           |
| 2017/02/02 05:21 | 2.43       | 156.25     | 3.89           |
| 2017/02/02 05:36 | 2.96       | 205.42     | 3.91           |
| 2017/02/02 05:51 | 3.12       | 227.92     | 4.03           |
| 2017/02/02 06:06 | 3.12       | 227.92     | 4.03           |
| 2017/02/02 06:21 | 3.12       | 227.92     | 4.03           |
| 2017/02/02 06:36 | 3.12       | 247.36     | 4.37           |
| 2017/02/02 06:51 | 3.07       | 241.46     | 4.37           |
| 2017/02/02 07:06 | 2.75       | 208.05     | 4.37           |
| 2017/02/02 07:21 | 2.71       | 206.94     | 4.44           |
| 2017/02/02 07:36 | 2.71       | 208.40     | 4.47           |
| 2017/02/02 07:51 | 2.71       | 218.54     | 4.69           |
| 2017/02/02 08:06 | 2.75       | 230.97     | 4.85           |
| 2017/02/02 08:21 | 2.71       | 235.69     | 5.05           |
| 2017/02/02 08:36 | 2.71       | 226.18     | 4.85           |
| 2017/02/02 08:51 | 2.71       | 235.69     | 5.05           |
| 2017/02/02 09:06 | 2.71       | 226.18     | 4.85           |
| 2017/02/02 09:21 | 2.71       | 223.61     | 4.79           |
| 2017/02/02 09:36 | 2.66       | 218.89     | 4.79           |
| 2017/02/02 09:51 | 2.66       | 194.37     | 4.26           |
| 2017/02/02 10:06 | 2.59       | 185.83     | 4.22           |
| 2017/02/02 10:21 | 2.47       | 175.07     | 4.26           |
| 2017/02/02 10:36 | 2.40       | 166.87     | 4.22           |
| 2017/02/02 10:51 | 2.40       | 163.12     | 4.13           |
| 2017/02/02 11:06 | 2.40       | 163.12     | 4.13           |
| 2017/02/02 11:21 | 2.40       | 165.28     | 4.18           |
| 2017/02/02 11:36 | 2.26       | 152.15     | 4.18           |
| 2017/02/02 11:51 | 2.26       | 152.15     | 4.18           |
| 2017/02/02 12:06 | 2.26       | 152.15     | 4.18           |
| 2017/02/02 12:21 | 2.30       | 156.04     | 4.18           |
| 2017/02/02 12:36 | 2.30       | 161.25     | 4.32           |
| 2017/02/02 12:51 | 2.26       | 152.15     | 4.18           |
| 2017/02/02 13:06 | 2.18       | 135.83     | 3.93           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/02 13:21 | 2.18       | 145.07     | 4.20           |
| 2017/02/02 13:36 | 2.09       | 127.01     | 3.89           |
| 2017/02/02 13:51 | 2.09       | 124.93     | 3.82           |
| 2017/02/02 14:06 | 2.08       | 125.83     | 3.89           |
| 2017/02/02 14:21 | 2.07       | 124.65     | 3.89           |
| 2017/02/02 14:36 | 2.07       | 132.50     | 4.13           |
| 2017/02/02 14:51 | 2.08       | 136.11     | 4.20           |
| 2017/02/02 15:06 | 2.09       | 140.90     | 4.31           |
| 2017/02/02 15:21 | 2.16       | 147.50     | 4.31           |
| 2017/02/02 15:36 | 2.19       | 150.14     | 4.31           |
| 2017/02/02 15:51 | 2.32       | 155.49     | 4.13           |
| 2017/02/02 16:06 | 2.47       | 164.72     | 4.01           |
| 2017/02/02 16:21 | 2.47       | 164.72     | 4.01           |
| 2017/02/02 16:36 | 2.47       | 164.72     | 4.01           |
| 2017/02/02 16:51 | 2.47       | 155.97     | 3.79           |
| 2017/02/02 17:06 | 2.47       | 164.72     | 4.01           |
| 2017/02/02 17:21 | 2.33       | 153.61     | 4.05           |
| 2017/02/02 17:36 | 2.33       | 154.03     | 4.06           |
| 2017/02/02 17:51 | 2.33       | 157.15     | 4.14           |
| 2017/02/02 18:06 | 2.25       | 146.46     | 4.06           |
| 2017/02/02 18:21 | 2.33       | 153.68     | 4.05           |
| 2017/02/02 18:36 | 2.50       | 169.51     | 4.06           |
| 2017/02/02 18:51 | 2.61       | 179.58     | 4.05           |
| 2017/02/02 19:06 | 2.71       | 198.89     | 4.26           |
| 2017/02/02 19:21 | 2.71       | 188.82     | 4.05           |
| 2017/02/02 19:36 | 2.65       | 183.19     | 4.04           |
| 2017/02/02 19:51 | 2.65       | 183.19     | 4.04           |
| 2017/02/02 20:06 | 2.61       | 193.19     | 4.36           |
| 2017/02/02 20:21 | 2.61       | 193.19     | 4.36           |
| 2017/02/02 20:36 | 2.46       | 177.78     | 4.36           |
| 2017/02/02 20:51 | 2.44       | 166.60     | 4.11           |
| 2017/02/02 21:06 | 2.40       | 162.64     | 4.11           |
| 2017/02/02 21:21 | 2.40       | 176.46     | 4.46           |
| 2017/02/02 21:36 | 2.16       | 140.76     | 4.11           |
| 2017/02/02 21:51 | 2.16       | 135.21     | 3.95           |
| 2017/02/02 22:06 | 2.16       | 135.21     | 3.95           |
| 2017/02/02 22:21 | 2.16       | 135.21     | 3.95           |
| 2017/02/02 22:36 | 2.11       | 130.35     | 3.95           |
| 2017/02/02 22:51 | 2.21       | 143.19     | 4.07           |
| 2017/02/02 23:06 | 2.21       | 134.44     | 3.83           |
| 2017/02/02 23:21 | 2.25       | 137.99     | 3.83           |
| 2017/02/02 23:36 | 2.25       | 147.01     | 4.07           |
| 2017/02/02 23:51 | 2.21       | 143.19     | 4.07           |
| 2017/02/03 00:06 | 2.21       | 145.83     | 4.15           |
| 2017/02/03 00:21 | 2.21       | 145.83     | 4.15           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 00:36 | 2.09       | 133.82     | 4.09           |
| 2017/02/03 00:51 | 2.09       | 135.69     | 4.15           |
| 2017/02/03 01:06 | 2.03       | 129.44     | 4.15           |
| 2017/02/03 01:21 | 2.03       | 127.64     | 4.09           |
| 2017/02/03 01:36 | 2.03       | 127.22     | 4.08           |
| 2017/02/03 01:51 | 2.03       | 119.72     | 3.84           |
| 2017/02/03 02:06 | 2.03       | 113.19     | 3.63           |
| 2017/02/03 02:21 | 2.43       | 144.65     | 3.60           |
| 2017/02/03 02:36 | 2.43       | 139.03     | 3.46           |
| 2017/02/03 02:51 | 2.62       | 154.31     | 3.45           |
| 2017/02/03 03:06 | 2.62       | 154.31     | 3.45           |
| 2017/02/03 03:21 | 2.83       | 170.35     | 3.43           |
| 2017/02/03 03:36 | 2.94       | 180.00     | 3.44           |
| 2017/02/03 03:51 | 2.90       | 176.53     | 3.44           |
| 2017/02/03 04:06 | 2.90       | 176.53     | 3.44           |
| 2017/02/03 04:21 | 2.83       | 170.35     | 3.43           |
| 2017/02/03 04:36 | 2.83       | 170.83     | 3.44           |
| 2017/02/03 04:51 | 2.83       | 170.83     | 3.44           |
| 2017/02/03 05:06 | 1.93       | 100.62     | 3.46           |
| 2017/02/03 05:21 | 1.93       | 107.64     | 3.70           |
| 2017/02/03 05:36 | 1.93       | 114.93     | 3.95           |
| 2017/02/03 05:51 | 1.93       | 121.32     | 4.17           |
| 2017/02/03 06:06 | 1.93       | 121.32     | 4.17           |
| 2017/02/03 06:21 | 1.97       | 119.51     | 3.99           |
| 2017/02/03 06:36 | 2.03       | 125.97     | 4.04           |
| 2017/02/03 06:51 | 2.07       | 129.65     | 4.04           |
| 2017/02/03 07:06 | 2.07       | 129.65     | 4.04           |
| 2017/02/03 07:21 | 2.18       | 139.51     | 4.04           |
| 2017/02/03 07:36 | 2.58       | 176.60     | 4.04           |
| 2017/02/03 07:51 | 2.86       | 203.96     | 4.06           |
| 2017/02/03 08:06 | 2.93       | 218.19     | 4.20           |
| 2017/02/03 08:21 | 2.96       | 259.44     | 4.93           |
| 2017/02/03 08:36 | 3.01       | 268.12     | 4.97           |
| 2017/02/03 08:51 | 3.01       | 268.12     | 4.97           |
| 2017/02/03 09:06 | 3.01       | 270.21     | 5.01           |
| 2017/02/03 09:21 | 3.01       | 270.90     | 5.02           |
| 2017/02/03 09:36 | 2.97       | 265.14     | 5.01           |
| 2017/02/03 09:51 | 2.94       | 261.80     | 5.01           |
| 2017/02/03 10:06 | 2.86       | 251.80     | 5.01           |
| 2017/02/03 10:21 | 2.86       | 241.46     | 4.80           |
| 2017/02/03 10:36 | 2.86       | 251.80     | 5.01           |
| 2017/02/03 10:51 | 2.79       | 244.17     | 5.02           |
| 2017/02/03 11:06 | 2.79       | 245.62     | 5.05           |
| 2017/02/03 11:21 | 2.75       | 240.62     | 5.05           |
| 2017/02/03 11:36 | 2.71       | 229.30     | 4.92           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 11:51 | 2.71       | 229.30     | 4.92           |
| 2017/02/03 12:06 | 2.69       | 227.64     | 4.92           |
| 2017/02/03 12:21 | 2.58       | 214.03     | 4.90           |
| 2017/02/03 12:36 | 2.58       | 185.28     | 4.24           |
| 2017/02/03 12:51 | 2.54       | 181.11     | 4.24           |
| 2017/02/03 13:06 | 2.37       | 163.06     | 4.19           |
| 2017/02/03 13:21 | 2.22       | 144.93     | 4.09           |
| 2017/02/03 13:36 | 2.37       | 163.06     | 4.19           |
| 2017/02/03 13:51 | 2.37       | 163.06     | 4.19           |
| 2017/02/03 14:06 | 2.46       | 166.81     | 4.09           |
| 2017/02/03 14:21 | 2.37       | 156.74     | 4.03           |
| 2017/02/03 14:36 | 2.26       | 146.67     | 4.03           |
| 2017/02/03 14:51 | 2.26       | 145.49     | 4.00           |
| 2017/02/03 15:06 | 2.26       | 156.04     | 4.29           |
| 2017/02/03 15:21 | 2.08       | 129.44     | 4.00           |
| 2017/02/03 15:36 | 2.07       | 128.26     | 4.00           |
| 2017/02/03 15:51 | 2.07       | 133.82     | 4.17           |
| 2017/02/03 16:06 | 2.07       | 135.14     | 4.21           |
| 2017/02/03 16:21 | 2.07       | 133.82     | 4.17           |
| 2017/02/03 16:36 | 2.12       | 140.28     | 4.21           |
| 2017/02/03 16:51 | 2.18       | 143.96     | 4.17           |
| 2017/02/03 17:06 | 2.18       | 143.96     | 4.17           |
| 2017/02/03 17:21 | 2.18       | 136.94     | 3.97           |
| 2017/02/03 17:36 | 2.21       | 139.37     | 3.97           |
| 2017/02/03 17:51 | 2.29       | 146.81     | 3.97           |
| 2017/02/03 18:06 | 2.18       | 139.58     | 4.04           |
| 2017/02/03 18:21 | 2.15       | 134.51     | 3.97           |
| 2017/02/03 18:36 | 2.15       | 137.08     | 4.04           |
| 2017/02/03 18:51 | 2.15       | 137.08     | 4.04           |
| 2017/02/03 19:06 | 2.09       | 132.15     | 4.04           |
| 2017/02/03 19:21 | 2.09       | 132.15     | 4.04           |
| 2017/02/03 19:36 | 2.09       | 129.86     | 3.97           |
| 2017/02/03 19:51 | 2.40       | 157.01     | 3.97           |
| 2017/02/03 20:06 | 2.40       | 157.01     | 3.97           |
| 2017/02/03 20:21 | 2.40       | 157.01     | 3.97           |
| 2017/02/03 20:36 | 2.40       | 158.19     | 4.00           |
| 2017/02/03 20:51 | 2.40       | 182.64     | 4.62           |
| 2017/02/03 21:06 | 2.40       | 180.42     | 4.56           |
| 2017/02/03 21:21 | 2.50       | 192.92     | 4.62           |
| 2017/02/03 21:36 | 2.37       | 179.65     | 4.62           |
| 2017/02/03 21:51 | 2.50       | 192.92     | 4.62           |
| 2017/02/03 22:06 | 2.43       | 185.55     | 4.62           |
| 2017/02/03 22:21 | 2.43       | 183.89     | 4.58           |
| 2017/02/03 22:36 | 2.43       | 183.33     | 4.56           |
| 2017/02/03 22:51 | 2.19       | 147.01     | 4.22           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/03 23:06 | 2.19       | 144.93     | 4.16           |
| 2017/02/03 23:21 | 2.19       | 144.93     | 4.16           |
| 2017/02/03 23:36 | 2.19       | 144.93     | 4.16           |
| 2017/02/03 23:51 | 2.19       | 142.15     | 4.08           |
| 2017/02/04 00:06 | 2.28       | 149.72     | 4.08           |
| 2017/02/04 00:21 | 2.37       | 152.08     | 3.91           |
| 2017/02/04 00:36 | 2.37       | 158.75     | 4.08           |
| 2017/02/04 00:51 | 2.37       | 147.29     | 3.79           |
| 2017/02/04 01:06 | 2.37       | 150.14     | 3.86           |
| 2017/02/04 01:21 | 2.19       | 134.44     | 3.86           |
| 2017/02/04 01:36 | 2.19       | 146.11     | 4.19           |
| 2017/02/04 01:51 | 2.19       | 146.11     | 4.19           |
| 2017/02/04 02:06 | 2.19       | 147.36     | 4.23           |
| 2017/02/04 02:21 | 2.73       | 200.00     | 4.23           |
| 2017/02/04 02:36 | 2.73       | 200.00     | 4.23           |
| 2017/02/04 02:51 | 2.76       | 202.78     | 4.23           |
| 2017/02/04 03:06 | 2.76       | 205.90     | 4.29           |
| 2017/02/04 03:21 | 2.97       | 230.07     | 4.35           |
| 2017/02/04 03:36 | 2.97       | 217.36     | 4.11           |
| 2017/02/04 03:51 | 2.72       | 186.87     | 3.98           |
| 2017/02/04 04:06 | 2.40       | 157.36     | 3.98           |
| 2017/02/04 04:21 | 2.08       | 128.06     | 3.95           |
| 2017/02/04 04:36 | 2.01       | 120.97     | 3.92           |
| 2017/02/04 04:51 | 2.01       | 120.97     | 3.92           |
| 2017/02/04 05:06 | 1.98       | 118.61     | 3.92           |
| 2017/02/04 05:21 | 2.01       | 120.97     | 3.92           |
| 2017/02/04 05:36 | 2.00       | 119.79     | 3.92           |
| 2017/02/04 05:51 | 2.00       | 119.79     | 3.92           |
| 2017/02/04 06:06 | 2.00       | 120.90     | 3.95           |
| 2017/02/04 06:21 | 2.00       | 120.90     | 3.95           |
| 2017/02/04 06:36 | 2.03       | 123.26     | 3.95           |
| 2017/02/04 06:51 | 2.15       | 136.87     | 4.04           |
| 2017/02/04 07:06 | 2.22       | 143.89     | 4.06           |
| 2017/02/04 07:21 | 2.33       | 155.76     | 4.10           |
| 2017/02/04 07:36 | 2.40       | 162.29     | 4.10           |
| 2017/02/04 07:51 | 2.40       | 160.42     | 4.06           |
| 2017/02/04 08:06 | 2.46       | 165.56     | 4.06           |
| 2017/02/04 08:21 | 2.64       | 181.11     | 4.03           |
| 2017/02/04 08:36 | 2.66       | 176.87     | 3.87           |
| 2017/02/04 08:51 | 2.68       | 178.12     | 3.87           |
| 2017/02/04 09:06 | 2.73       | 178.19     | 3.77           |
| 2017/02/04 09:21 | 2.73       | 183.19     | 3.87           |
| 2017/02/04 09:36 | 2.75       | 191.67     | 4.03           |
| 2017/02/04 09:51 | 2.79       | 221.11     | 4.55           |
| 2017/02/04 10:06 | 2.79       | 221.11     | 4.55           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 10:21 | 2.82       | 224.10     | 4.55           |
| 2017/02/04 10:36 | 2.83       | 225.62     | 4.55           |
| 2017/02/04 10:51 | 2.87       | 239.30     | 4.73           |
| 2017/02/04 11:06 | 2.90       | 242.50     | 4.73           |
| 2017/02/04 11:21 | 2.94       | 247.22     | 4.73           |
| 2017/02/04 11:36 | 2.94       | 247.22     | 4.73           |
| 2017/02/04 11:51 | 2.94       | 247.22     | 4.73           |
| 2017/02/04 12:06 | 2.91       | 253.26     | 4.91           |
| 2017/02/04 12:21 | 2.87       | 248.33     | 4.91           |
| 2017/02/04 12:36 | 2.86       | 219.10     | 4.36           |
| 2017/02/04 12:51 | 2.86       | 219.10     | 4.36           |
| 2017/02/04 13:06 | 2.86       | 214.37     | 4.26           |
| 2017/02/04 13:21 | 2.82       | 210.14     | 4.26           |
| 2017/02/04 13:36 | 2.82       | 249.93     | 5.07           |
| 2017/02/04 13:51 | 2.79       | 216.53     | 4.45           |
| 2017/02/04 14:06 | 2.79       | 216.53     | 4.45           |
| 2017/02/04 14:21 | 2.79       | 216.53     | 4.45           |
| 2017/02/04 14:36 | 2.69       | 202.71     | 4.38           |
| 2017/02/04 14:51 | 2.46       | 178.68     | 4.38           |
| 2017/02/04 15:06 | 2.46       | 178.68     | 4.38           |
| 2017/02/04 15:21 | 2.46       | 176.81     | 4.33           |
| 2017/02/04 15:36 | 2.46       | 176.81     | 4.33           |
| 2017/02/04 15:51 | 2.46       | 176.81     | 4.33           |
| 2017/02/04 16:06 | 2.47       | 180.76     | 4.39           |
| 2017/02/04 16:21 | 2.55       | 204.24     | 4.74           |
| 2017/02/04 16:36 | 2.61       | 210.97     | 4.76           |
| 2017/02/04 16:51 | 2.66       | 216.60     | 4.74           |
| 2017/02/04 17:06 | 2.66       | 216.60     | 4.74           |
| 2017/02/04 17:21 | 2.61       | 194.93     | 4.39           |
| 2017/02/04 17:36 | 2.57       | 190.62     | 4.39           |
| 2017/02/04 17:51 | 2.57       | 196.39     | 4.53           |
| 2017/02/04 18:06 | 2.55       | 188.68     | 4.38           |
| 2017/02/04 18:21 | 2.55       | 188.68     | 4.38           |
| 2017/02/04 18:36 | 2.53       | 185.83     | 4.38           |
| 2017/02/04 18:51 | 2.47       | 180.21     | 4.38           |
| 2017/02/04 19:06 | 2.53       | 187.71     | 4.43           |
| 2017/02/04 19:21 | 2.47       | 179.10     | 4.35           |
| 2017/02/04 19:36 | 2.43       | 174.72     | 4.35           |
| 2017/02/04 19:51 | 2.43       | 162.99     | 4.06           |
| 2017/02/04 20:06 | 2.41       | 161.67     | 4.06           |
| 2017/02/04 20:21 | 2.43       | 162.99     | 4.06           |
| 2017/02/04 20:36 | 2.43       | 159.72     | 3.98           |
| 2017/02/04 20:51 | 2.41       | 158.47     | 3.98           |
| 2017/02/04 21:06 | 2.34       | 152.15     | 3.98           |
| 2017/02/04 21:21 | 2.32       | 149.65     | 3.98           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/04 21:36 | 2.29       | 147.15     | 3.98           |
| 2017/02/04 21:51 | 2.29       | 138.40     | 3.74           |
| 2017/02/04 22:06 | 2.22       | 132.57     | 3.74           |
| 2017/02/04 22:21 | 2.22       | 142.64     | 4.02           |
| 2017/02/04 22:36 | 2.22       | 144.37     | 4.07           |
| 2017/02/04 22:51 | 2.22       | 146.04     | 4.12           |
| 2017/02/04 23:06 | 2.23       | 147.29     | 4.12           |
| 2017/02/04 23:21 | 2.23       | 147.57     | 4.13           |
| 2017/02/04 23:36 | 2.23       | 147.57     | 4.13           |
| 2017/02/04 23:51 | 2.26       | 150.14     | 4.13           |
| 2017/02/05 00:06 | 2.26       | 146.87     | 4.04           |
| 2017/02/05 00:21 | 2.19       | 140.62     | 4.04           |
| 2017/02/05 00:36 | 2.04       | 127.01     | 4.04           |
| 2017/02/05 00:51 | 2.03       | 132.85     | 4.26           |
| 2017/02/05 01:06 | 2.00       | 130.28     | 4.26           |
| 2017/02/05 01:21 | 2.00       | 131.25     | 4.29           |
| 2017/02/05 01:36 | 1.98       | 129.93     | 4.29           |
| 2017/02/05 01:51 | 1.98       | 129.93     | 4.29           |
| 2017/02/05 02:06 | 1.98       | 128.96     | 4.26           |
| 2017/02/05 02:21 | 1.98       | 128.96     | 4.26           |
| 2017/02/05 02:36 | 2.00       | 123.19     | 4.03           |
| 2017/02/05 02:51 | 2.01       | 118.96     | 3.85           |
| 2017/02/05 03:06 | 2.01       | 116.74     | 3.78           |
| 2017/02/05 03:21 | 2.01       | 115.07     | 3.73           |
| 2017/02/05 03:36 | 2.08       | 120.69     | 3.73           |
| 2017/02/05 03:51 | 2.08       | 120.69     | 3.73           |
| 2017/02/05 04:06 | 2.71       | 173.54     | 3.72           |
| 2017/02/05 04:21 | 1.90       | 105.42     | 3.70           |
| 2017/02/05 04:36 | 1.87       | 103.19     | 3.70           |
| 2017/02/05 04:51 | 1.84       | 101.04     | 3.70           |
| 2017/02/05 05:06 | 1.84       | 102.29     | 3.74           |
| 2017/02/05 05:21 | 1.79       | 98.33      | 3.76           |
| 2017/02/05 05:36 | 1.79       | 98.33      | 3.76           |
| 2017/02/05 05:51 | 1.79       | 98.33      | 3.76           |
| 2017/02/05 06:06 | 1.84       | 102.71     | 3.76           |
| 2017/02/05 06:21 | 1.86       | 103.89     | 3.76           |
| 2017/02/05 06:36 | 1.89       | 104.79     | 3.72           |
| 2017/02/05 06:51 | 1.89       | 104.79     | 3.72           |
| 2017/02/05 07:06 | 1.90       | 105.90     | 3.72           |
| 2017/02/05 07:21 | 2.11       | 122.57     | 3.72           |
| 2017/02/05 07:36 | 2.11       | 124.37     | 3.77           |
| 2017/02/05 07:51 | 2.22       | 139.44     | 3.93           |
| 2017/02/05 08:06 | 2.22       | 140.07     | 3.95           |
| 2017/02/05 08:21 | 2.23       | 141.39     | 3.95           |
| 2017/02/05 08:36 | 2.39       | 162.22     | 4.14           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 08:51 | 2.39       | 165.07     | 4.21           |
| 2017/02/05 09:06 | 2.39       | 165.07     | 4.21           |
| 2017/02/05 09:21 | 2.39       | 165.07     | 4.21           |
| 2017/02/05 09:36 | 2.39       | 166.67     | 4.25           |
| 2017/02/05 09:51 | 2.55       | 187.57     | 4.36           |
| 2017/02/05 10:06 | 2.73       | 200.97     | 4.25           |
| 2017/02/05 10:21 | 2.94       | 223.05     | 4.27           |
| 2017/02/05 10:36 | 2.97       | 225.90     | 4.27           |
| 2017/02/05 10:51 | 2.97       | 233.96     | 4.42           |
| 2017/02/05 11:06 | 2.97       | 250.69     | 4.74           |
| 2017/02/05 11:21 | 2.97       | 250.69     | 4.74           |
| 2017/02/05 11:36 | 2.97       | 233.96     | 4.42           |
| 2017/02/05 11:51 | 2.97       | 250.69     | 4.74           |
| 2017/02/05 12:06 | 2.91       | 244.37     | 4.74           |
| 2017/02/05 12:21 | 2.80       | 243.61     | 4.98           |
| 2017/02/05 12:36 | 2.80       | 242.99     | 4.97           |
| 2017/02/05 12:51 | 2.80       | 243.61     | 4.98           |
| 2017/02/05 13:06 | 2.80       | 243.61     | 4.98           |
| 2017/02/05 13:21 | 2.80       | 243.61     | 4.98           |
| 2017/02/05 13:36 | 2.83       | 246.87     | 4.98           |
| 2017/02/05 13:51 | 2.83       | 253.82     | 5.12           |
| 2017/02/05 14:06 | 2.83       | 253.82     | 5.12           |
| 2017/02/05 14:21 | 2.89       | 260.62     | 5.12           |
| 2017/02/05 14:36 | 2.80       | 249.17     | 5.09           |
| 2017/02/05 14:51 | 2.78       | 237.08     | 4.91           |
| 2017/02/05 15:06 | 2.78       | 237.08     | 4.91           |
| 2017/02/05 15:21 | 2.75       | 230.90     | 4.85           |
| 2017/02/05 15:36 | 2.57       | 205.28     | 4.73           |
| 2017/02/05 15:51 | 2.54       | 202.22     | 4.73           |
| 2017/02/05 16:06 | 2.53       | 192.22     | 4.53           |
| 2017/02/05 16:21 | 2.44       | 176.60     | 4.36           |
| 2017/02/05 16:36 | 2.23       | 152.08     | 4.25           |
| 2017/02/05 16:51 | 2.44       | 168.68     | 4.17           |
| 2017/02/05 17:06 | 2.44       | 159.58     | 3.94           |
| 2017/02/05 17:21 | 2.16       | 134.86     | 3.94           |
| 2017/02/05 17:36 | 2.44       | 159.58     | 3.94           |
| 2017/02/05 17:51 | 2.44       | 159.17     | 3.93           |
| 2017/02/05 18:06 | 2.44       | 159.17     | 3.93           |
| 2017/02/05 18:21 | 2.72       | 183.26     | 3.90           |
| 2017/02/05 18:36 | 2.72       | 176.81     | 3.76           |
| 2017/02/05 18:51 | 2.28       | 138.12     | 3.76           |
| 2017/02/05 19:06 | 2.28       | 138.12     | 3.76           |
| 2017/02/05 19:21 | 2.28       | 138.12     | 3.76           |
| 2017/02/05 19:36 | 2.28       | 143.19     | 3.90           |
| 2017/02/05 19:51 | 2.47       | 161.81     | 3.93           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/05 20:06 | 2.47       | 161.81     | 3.93           |
| 2017/02/05 20:21 | 2.72       | 189.17     | 4.03           |
| 2017/02/05 20:36 | 3.30       | 245.90     | 4.03           |
| 2017/02/05 20:51 | 3.30       | 261.32     | 4.28           |
| 2017/02/05 21:06 | 3.30       | 262.15     | 4.30           |
| 2017/02/05 21:21 | 3.18       | 248.26     | 4.28           |
| 2017/02/05 21:36 | 2.86       | 215.21     | 4.28           |
| 2017/02/05 21:51 | 2.86       | 215.21     | 4.28           |
| 2017/02/05 22:06 | 2.82       | 202.29     | 4.11           |
| 2017/02/05 22:21 | 2.75       | 195.55     | 4.11           |
| 2017/02/05 22:36 | 2.75       | 187.64     | 3.94           |
| 2017/02/05 22:51 | 2.30       | 147.08     | 3.94           |
| 2017/02/05 23:06 | 2.30       | 147.29     | 3.95           |
| 2017/02/05 23:21 | 2.11       | 130.00     | 3.94           |
| 2017/02/05 23:36 | 2.11       | 130.21     | 3.95           |
| 2017/02/05 23:51 | 2.25       | 143.82     | 3.99           |
| 2017/02/06 00:06 | 2.11       | 130.21     | 3.95           |
| 2017/02/06 00:21 | 2.11       | 130.21     | 3.95           |
| 2017/02/06 00:36 | 2.01       | 121.81     | 3.95           |
| 2017/02/06 00:51 | 2.01       | 121.11     | 3.92           |
| 2017/02/06 01:06 | 1.93       | 114.10     | 3.92           |
| 2017/02/06 01:21 | 1.93       | 110.62     | 3.80           |
| 2017/02/06 01:36 | 1.93       | 110.62     | 3.80           |
| 2017/02/06 01:51 | 3.21       | 223.12     | 3.80           |
| 2017/02/06 02:06 | 3.41       | 237.43     | 3.72           |
| 2017/02/06 02:21 | 3.44       | 240.00     | 3.72           |
| 2017/02/06 02:36 | 3.44       | 237.64     | 3.69           |
| 2017/02/06 02:51 | 3.44       | 230.07     | 3.57           |
| 2017/02/06 03:06 | 3.44       | 230.35     | 3.57           |
| 2017/02/06 03:21 | 3.21       | 209.65     | 3.57           |
| 2017/02/06 03:36 | 3.07       | 203.75     | 3.69           |
| 2017/02/06 03:51 | 2.98       | 199.86     | 3.75           |
| 2017/02/06 04:06 | 2.73       | 177.64     | 3.76           |
| 2017/02/06 04:21 | 2.73       | 190.49     | 4.03           |
| 2017/02/06 04:36 | 2.98       | 214.58     | 4.03           |
| 2017/02/06 04:51 | 2.98       | 214.58     | 4.03           |
| 2017/02/06 05:06 | 2.73       | 182.78     | 3.87           |
| 2017/02/06 05:21 | 2.33       | 146.67     | 3.87           |
| 2017/02/06 05:36 | 2.68       | 177.71     | 3.87           |
| 2017/02/06 05:51 | 2.68       | 180.97     | 3.94           |
| 2017/02/06 06:06 | 2.68       | 177.71     | 3.87           |
| 2017/02/06 06:21 | 2.68       | 180.97     | 3.94           |
| 2017/02/06 06:36 | 3.00       | 218.96     | 4.08           |
| 2017/02/06 06:51 | 3.12       | 234.58     | 4.14           |
| 2017/02/06 07:06 | 3.14       | 307.85     | 5.40           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 07:21 | 3.16       | 326.04     | 5.66           |
| 2017/02/06 07:36 | 3.16       | 326.04     | 5.66           |
| 2017/02/06 07:51 | 3.55       | 380.14     | 5.66           |
| 2017/02/06 08:06 | 3.55       | 399.44     | 5.94           |
| 2017/02/06 08:21 | 3.55       | 418.47     | 6.23           |
| 2017/02/06 08:36 | 3.55       | 418.47     | 6.23           |
| 2017/02/06 08:51 | 3.47       | 405.69     | 6.23           |
| 2017/02/06 09:06 | 3.39       | 335.69     | 5.32           |
| 2017/02/06 09:21 | 3.39       | 335.69     | 5.32           |
| 2017/02/06 09:36 | 3.37       | 390.76     | 6.23           |
| 2017/02/06 09:51 | 3.37       | 395.07     | 6.30           |
| 2017/02/06 10:06 | 3.39       | 397.22     | 6.30           |
| 2017/02/06 10:21 | 3.39       | 397.22     | 6.30           |
| 2017/02/06 10:36 | 3.37       | 395.07     | 6.30           |
| 2017/02/06 10:51 | 3.37       | 395.07     | 6.30           |
| 2017/02/06 11:06 | 3.16       | 281.94     | 4.89           |
| 2017/02/06 11:21 | 3.16       | 271.94     | 4.72           |
| 2017/02/06 11:36 | 3.09       | 258.96     | 4.63           |
| 2017/02/06 11:51 | 2.72       | 212.92     | 4.53           |
| 2017/02/06 12:06 | 2.72       | 212.92     | 4.53           |
| 2017/02/06 12:21 | 2.71       | 194.86     | 4.18           |
| 2017/02/06 12:36 | 2.71       | 194.86     | 4.18           |
| 2017/02/06 12:51 | 2.71       | 194.86     | 4.18           |
| 2017/02/06 13:06 | 2.75       | 198.96     | 4.18           |
| 2017/02/06 13:21 | 2.84       | 208.61     | 4.18           |
| 2017/02/06 13:36 | 2.84       | 208.61     | 4.18           |
| 2017/02/06 13:51 | 2.84       | 203.12     | 4.07           |
| 2017/02/06 14:06 | 2.84       | 203.12     | 4.07           |
| 2017/02/06 14:21 | 2.87       | 198.54     | 3.92           |
| 2017/02/06 14:36 | 2.87       | 198.54     | 3.92           |
| 2017/02/06 14:51 | 2.87       | 198.54     | 3.92           |
| 2017/02/06 15:06 | 3.11       | 234.79     | 4.17           |
| 2017/02/06 15:21 | 3.14       | 237.64     | 4.17           |
| 2017/02/06 15:36 | 3.14       | 245.00     | 4.30           |
| 2017/02/06 15:51 | 3.19       | 250.83     | 4.30           |
| 2017/02/06 16:06 | 3.19       | 250.83     | 4.30           |
| 2017/02/06 16:21 | 3.32       | 263.75     | 4.30           |
| 2017/02/06 16:36 | 3.32       | 263.75     | 4.30           |
| 2017/02/06 16:51 | 3.32       | 259.65     | 4.23           |
| 2017/02/06 17:06 | 3.30       | 258.19     | 4.23           |
| 2017/02/06 17:21 | 3.32       | 257.64     | 4.20           |
| 2017/02/06 17:36 | 3.32       | 257.64     | 4.20           |
| 2017/02/06 17:51 | 3.32       | 259.65     | 4.23           |
| 2017/02/06 18:06 | 3.30       | 242.78     | 3.98           |
| 2017/02/06 18:21 | 3.26       | 253.89     | 4.23           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/06 18:36 | 3.15       | 250.62     | 4.37           |
| 2017/02/06 18:51 | 3.11       | 251.11     | 4.46           |
| 2017/02/06 19:06 | 3.11       | 251.11     | 4.46           |
| 2017/02/06 19:21 | 3.11       | 246.18     | 4.37           |
| 2017/02/06 19:36 | 3.05       | 241.87     | 4.40           |
| 2017/02/06 19:51 | 3.05       | 249.65     | 4.54           |
| 2017/02/06 20:06 | 3.05       | 241.87     | 4.40           |
| 2017/02/06 20:21 | 3.16       | 251.74     | 4.37           |
| 2017/02/06 20:36 | 3.19       | 254.65     | 4.37           |
| 2017/02/06 20:51 | 3.19       | 254.65     | 4.37           |
| 2017/02/06 21:06 | 3.29       | 265.07     | 4.37           |
| 2017/02/06 21:21 | 3.30       | 266.53     | 4.37           |
| 2017/02/06 21:36 | 3.32       | 253.89     | 4.14           |
| 2017/02/06 21:51 | 3.30       | 266.53     | 4.37           |
| 2017/02/06 22:06 | 3.41       | 273.54     | 4.29           |
| 2017/02/06 22:21 | 3.41       | 273.54     | 4.29           |
| 2017/02/06 22:36 | 3.41       | 276.53     | 4.34           |
| 2017/02/06 22:51 | 3.41       | 276.53     | 4.34           |
| 2017/02/06 23:06 | 3.33       | 264.72     | 4.29           |
| 2017/02/06 23:21 | 3.30       | 261.80     | 4.29           |
| 2017/02/06 23:36 | 3.30       | 261.80     | 4.29           |
| 2017/02/06 23:51 | 3.26       | 252.78     | 4.21           |
| 2017/02/07 00:06 | 3.07       | 232.78     | 4.21           |
| 2017/02/07 00:21 | 2.83       | 200.76     | 4.05           |
| 2017/02/07 00:36 | 2.83       | 200.76     | 4.05           |
| 2017/02/07 00:51 | 2.83       | 206.60     | 4.17           |
| 2017/02/07 01:06 | 3.25       | 248.61     | 4.17           |
| 2017/02/07 01:21 | 3.25       | 235.55     | 3.95           |
| 2017/02/07 01:36 | 3.25       | 243.89     | 4.09           |
| 2017/02/07 01:51 | 3.33       | 245.55     | 3.98           |
| 2017/02/07 02:06 | 3.37       | 256.39     | 4.09           |
| 2017/02/07 02:21 | 3.40       | 252.29     | 3.98           |
| 2017/02/07 02:36 | 3.46       | 255.83     | 3.95           |
| 2017/02/07 02:51 | 3.46       | 253.05     | 3.90           |
| 2017/02/07 03:06 | 3.44       | 251.67     | 3.90           |
| 2017/02/07 03:21 | 3.44       | 239.10     | 3.71           |
| 2017/02/07 03:36 | 3.44       | 239.10     | 3.71           |
| 2017/02/07 03:51 | 3.44       | 239.10     | 3.71           |
| 2017/02/07 04:06 | 2.08       | 123.06     | 3.80           |
| 2017/02/07 04:21 | 2.04       | 119.58     | 3.80           |
| 2017/02/07 04:36 | 2.00       | 119.93     | 3.92           |
| 2017/02/07 04:51 | 2.00       | 120.07     | 3.93           |
| 2017/02/07 05:06 | 2.00       | 123.33     | 4.03           |
| 2017/02/07 05:21 | 2.00       | 123.33     | 4.03           |
| 2017/02/07 05:36 | 2.00       | 122.36     | 4.00           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 05:51 | 2.00       | 122.36     | 4.00           |
| 2017/02/07 06:06 | 2.09       | 128.40     | 3.93           |
| 2017/02/07 06:21 | 2.12       | 133.26     | 4.00           |
| 2017/02/07 06:36 | 2.44       | 162.08     | 4.00           |
| 2017/02/07 06:51 | 2.44       | 162.08     | 4.00           |
| 2017/02/07 07:06 | 2.68       | 190.00     | 4.13           |
| 2017/02/07 07:21 | 2.87       | 222.08     | 4.39           |
| 2017/02/07 07:36 | 3.02       | 258.89     | 4.77           |
| 2017/02/07 07:51 | 3.02       | 273.68     | 5.04           |
| 2017/02/07 08:06 | 3.02       | 273.68     | 5.04           |
| 2017/02/07 08:21 | 3.04       | 260.49     | 4.77           |
| 2017/02/07 08:36 | 3.02       | 258.89     | 4.77           |
| 2017/02/07 08:51 | 3.00       | 242.08     | 4.52           |
| 2017/02/07 09:06 | 3.00       | 236.25     | 4.41           |
| 2017/02/07 09:21 | 2.98       | 234.58     | 4.40           |
| 2017/02/07 09:36 | 2.98       | 234.58     | 4.40           |
| 2017/02/07 09:51 | 2.98       | 234.58     | 4.40           |
| 2017/02/07 10:06 | 2.96       | 231.87     | 4.41           |
| 2017/02/07 10:21 | 2.91       | 227.43     | 4.41           |
| 2017/02/07 10:36 | 2.87       | 223.05     | 4.41           |
| 2017/02/07 10:51 | 2.87       | 214.10     | 4.23           |
| 2017/02/07 11:06 | 2.83       | 223.40     | 4.50           |
| 2017/02/07 11:21 | 2.83       | 223.40     | 4.50           |
| 2017/02/07 11:36 | 2.83       | 209.86     | 4.23           |
| 2017/02/07 11:51 | 2.83       | 198.12     | 3.99           |
| 2017/02/07 12:06 | 2.83       | 197.99     | 3.99           |
| 2017/02/07 12:21 | 2.83       | 198.12     | 3.99           |
| 2017/02/07 12:36 | 2.83       | 216.60     | 4.37           |
| 2017/02/07 12:51 | 2.89       | 218.05     | 4.28           |
| 2017/02/07 13:06 | 2.73       | 190.90     | 4.04           |
| 2017/02/07 13:21 | 2.90       | 209.30     | 4.08           |
| 2017/02/07 13:36 | 2.72       | 191.74     | 4.08           |
| 2017/02/07 13:51 | 2.72       | 191.74     | 4.08           |
| 2017/02/07 14:06 | 2.57       | 177.15     | 4.08           |
| 2017/02/07 14:21 | 2.57       | 176.74     | 4.07           |
| 2017/02/07 14:36 | 2.57       | 176.74     | 4.07           |
| 2017/02/07 14:51 | 2.44       | 165.35     | 4.08           |
| 2017/02/07 15:06 | 2.40       | 169.31     | 4.28           |
| 2017/02/07 15:21 | 2.28       | 162.08     | 4.42           |
| 2017/02/07 15:36 | 1.62       | 118.75     | 5.22           |
| 2017/02/07 15:51 | 1.36       | 102.15     | 5.79           |
| 2017/02/07 16:06 | 1.36       | 102.99     | 5.84           |
| 2017/02/07 16:21 | 1.36       | 102.99     | 5.84           |
| 2017/02/07 16:36 | 1.36       | 102.99     | 5.84           |
| 2017/02/07 16:51 | 1.36       | 102.99     | 5.84           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/07 17:06 | 1.34       | 100.69     | 5.79           |
| 2017/02/07 17:21 | 1.40       | 108.68     | 5.90           |
| 2017/02/07 17:36 | 1.43       | 114.37     | 6.04           |
| 2017/02/07 17:51 | 1.40       | 114.37     | 6.21           |
| 2017/02/07 18:06 | 1.48       | 129.31     | 6.46           |
| 2017/02/07 18:21 | 1.48       | 124.31     | 6.21           |
| 2017/02/07 18:36 | 1.54       | 136.32     | 6.46           |
| 2017/02/07 18:51 | 1.54       | 136.32     | 6.46           |
| 2017/02/07 19:06 | 1.55       | 143.12     | 6.69           |
| 2017/02/07 19:21 | 1.57       | 137.29     | 6.34           |
| 2017/02/07 19:36 | 1.57       | 137.29     | 6.34           |
| 2017/02/07 19:51 | 1.57       | 137.29     | 6.34           |
| 2017/02/07 20:06 | 1.57       | 138.19     | 6.38           |
| 2017/02/07 20:21 | 1.53       | 132.99     | 6.38           |
| 2017/02/07 20:36 | 1.53       | 134.72     | 6.47           |
| 2017/02/07 20:51 | 1.53       | 134.72     | 6.47           |
| 2017/02/07 21:06 | 1.53       | 135.00     | 6.48           |
| 2017/02/07 21:21 | 1.53       | 135.00     | 6.48           |
| 2017/02/07 21:36 | 1.53       | 135.00     | 6.48           |
| 2017/02/07 21:51 | 1.51       | 133.26     | 6.48           |
| 2017/02/07 22:06 | 1.47       | 127.08     | 6.43           |
| 2017/02/07 22:21 | 1.47       | 126.46     | 6.40           |
| 2017/02/07 22:36 | 1.44       | 120.07     | 6.25           |
| 2017/02/07 22:51 | 1.44       | 120.07     | 6.25           |
| 2017/02/07 23:06 | 1.41       | 115.00     | 6.16           |
| 2017/02/07 23:21 | 1.41       | 115.00     | 6.16           |
| 2017/02/07 23:36 | 1.37       | 103.61     | 5.79           |
| 2017/02/07 23:51 | 1.36       | 101.67     | 5.76           |
| 2017/02/08 00:06 | 1.33       | 92.64      | 5.41           |
| 2017/02/08 00:21 | 1.23       | 76.18      | 4.97           |
| 2017/02/08 00:36 | 1.14       | 65.07      | 4.78           |
| 2017/02/08 00:51 | 1.14       | 63.19      | 4.64           |
| 2017/02/08 01:06 | 1.14       | 56.46      | 4.15           |
| 2017/02/08 01:21 | 1.12       | 55.49      | 4.15           |
| 2017/02/08 01:36 | 1.12       | 55.49      | 4.15           |
| 2017/02/08 01:51 | 1.12       | 53.26      | 3.98           |
| 2017/02/08 02:06 | 1.12       | 52.78      | 3.95           |
| 2017/02/08 02:21 | 1.14       | 53.75      | 3.95           |
| 2017/02/08 02:36 | 1.14       | 54.24      | 3.98           |
| 2017/02/08 02:51 | 1.11       | 52.85      | 4.02           |
| 2017/02/08 03:06 | 1.14       | 53.12      | 3.90           |
| 2017/02/08 03:21 | 1.14       | 53.06      | 3.89           |
| 2017/02/08 03:36 | 1.11       | 51.18      | 3.89           |
| 2017/02/08 03:51 | 1.11       | 52.01      | 3.96           |
| 2017/02/08 04:06 | 1.11       | 52.85      | 4.02           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 04:21 | 1.12       | 53.82      | 4.02           |
| 2017/02/08 04:36 | 1.12       | 59.17      | 4.42           |
| 2017/02/08 04:51 | 1.11       | 61.04      | 4.65           |
| 2017/02/08 05:06 | 1.12       | 63.26      | 4.73           |
| 2017/02/08 05:21 | 1.14       | 64.37      | 4.73           |
| 2017/02/08 05:36 | 1.18       | 68.54      | 4.77           |
| 2017/02/08 05:51 | 1.18       | 68.54      | 4.77           |
| 2017/02/08 06:06 | 1.18       | 69.31      | 4.83           |
| 2017/02/08 06:21 | 1.23       | 79.17      | 5.16           |
| 2017/02/08 06:36 | 1.34       | 96.67      | 5.56           |
| 2017/02/08 06:51 | 1.34       | 98.19      | 5.65           |
| 2017/02/08 07:06 | 1.43       | 114.17     | 6.03           |
| 2017/02/08 07:21 | 1.47       | 122.15     | 6.18           |
| 2017/02/08 07:36 | 1.47       | 122.15     | 6.18           |
| 2017/02/08 07:51 | 1.48       | 126.53     | 6.32           |
| 2017/02/08 08:06 | 1.53       | 131.67     | 6.32           |
| 2017/02/08 08:21 | 1.53       | 131.67     | 6.32           |
| 2017/02/08 08:36 | 1.53       | 134.24     | 6.44           |
| 2017/02/08 08:51 | 1.53       | 134.24     | 6.44           |
| 2017/02/08 09:06 | 1.53       | 134.24     | 6.44           |
| 2017/02/08 09:21 | 1.50       | 128.19     | 6.32           |
| 2017/02/08 09:36 | 1.47       | 121.94     | 6.18           |
| 2017/02/08 09:51 | 1.44       | 118.68     | 6.18           |
| 2017/02/08 10:06 | 1.44       | 119.79     | 6.23           |
| 2017/02/08 10:21 | 1.44       | 118.68     | 6.18           |
| 2017/02/08 10:36 | 1.44       | 117.43     | 6.11           |
| 2017/02/08 10:51 | 1.43       | 115.28     | 6.08           |
| 2017/02/08 11:06 | 1.41       | 112.99     | 6.05           |
| 2017/02/08 11:21 | 1.41       | 112.57     | 6.02           |
| 2017/02/08 11:36 | 1.36       | 105.76     | 6.00           |
| 2017/02/08 11:51 | 1.36       | 100.62     | 5.71           |
| 2017/02/08 12:06 | 1.36       | 100.62     | 5.71           |
| 2017/02/08 12:21 | 1.32       | 95.83      | 5.69           |
| 2017/02/08 12:36 | 1.33       | 97.36      | 5.69           |
| 2017/02/08 12:51 | 1.32       | 94.37      | 5.60           |
| 2017/02/08 13:06 | 1.30       | 92.78      | 5.59           |
| 2017/02/08 13:21 | 1.30       | 91.60      | 5.52           |
| 2017/02/08 13:36 | 1.30       | 89.37      | 5.38           |
| 2017/02/08 13:51 | 1.30       | 89.37      | 5.38           |
| 2017/02/08 14:06 | 1.23       | 81.25      | 5.29           |
| 2017/02/08 14:21 | 1.23       | 81.25      | 5.29           |
| 2017/02/08 14:36 | 1.30       | 89.37      | 5.38           |
| 2017/02/08 14:51 | 1.23       | 82.99      | 5.41           |
| 2017/02/08 15:06 | 1.32       | 93.19      | 5.53           |
| 2017/02/08 15:21 | 1.33       | 97.36      | 5.69           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/08 15:36 | 1.36       | 101.46     | 5.75           |
| 2017/02/08 15:51 | 1.36       | 104.31     | 5.92           |
| 2017/02/08 16:06 | 1.36       | 104.31     | 5.92           |
| 2017/02/08 16:21 | 1.36       | 101.46     | 5.75           |
| 2017/02/08 16:36 | 1.36       | 104.31     | 5.92           |
| 2017/02/08 16:51 | 1.36       | 104.31     | 5.92           |
| 2017/02/08 17:06 | 1.33       | 101.25     | 5.92           |
| 2017/02/08 17:21 | 1.32       | 96.11      | 5.70           |
| 2017/02/08 17:36 | 1.32       | 96.11      | 5.70           |
| 2017/02/08 17:51 | 1.32       | 96.11      | 5.70           |
| 2017/02/08 18:06 | 1.32       | 97.99      | 5.81           |
| 2017/02/08 18:21 | 1.32       | 97.99      | 5.81           |
| 2017/02/08 18:36 | 1.37       | 108.82     | 6.08           |
| 2017/02/08 18:51 | 1.37       | 108.82     | 6.08           |
| 2017/02/08 19:06 | 1.39       | 111.46     | 6.14           |
| 2017/02/08 19:21 | 1.40       | 113.68     | 6.17           |
| 2017/02/08 19:36 | 1.40       | 113.68     | 6.17           |
| 2017/02/08 19:51 | 1.41       | 115.90     | 6.20           |
| 2017/02/08 20:06 | 1.43       | 121.25     | 6.40           |
| 2017/02/08 20:21 | 1.44       | 123.12     | 6.41           |
| 2017/02/08 20:36 | 1.44       | 123.12     | 6.41           |
| 2017/02/08 20:51 | 1.44       | 123.26     | 6.42           |
| 2017/02/08 21:06 | 1.44       | 123.26     | 6.42           |
| 2017/02/08 21:21 | 1.43       | 121.60     | 6.42           |
| 2017/02/08 21:36 | 1.43       | 121.60     | 6.42           |
| 2017/02/08 21:51 | 1.43       | 119.03     | 6.28           |
| 2017/02/08 22:06 | 1.43       | 119.03     | 6.28           |
| 2017/02/08 22:21 | 1.44       | 121.53     | 6.32           |
| 2017/02/08 22:36 | 1.43       | 116.04     | 6.12           |
| 2017/02/08 22:51 | 1.43       | 116.04     | 6.12           |
| 2017/02/08 23:06 | 1.40       | 112.78     | 6.12           |
| 2017/02/08 23:21 | 1.36       | 107.78     | 6.11           |
| 2017/02/08 23:36 | 1.32       | 98.96      | 5.87           |
| 2017/02/08 23:51 | 1.29       | 91.11      | 5.57           |
| 2017/02/09 00:06 | 1.29       | 91.04      | 5.57           |
| 2017/02/09 00:21 | 1.29       | 89.79      | 5.49           |
| 2017/02/09 00:36 | 1.29       | 85.83      | 5.25           |
| 2017/02/09 00:51 | 1.30       | 84.72      | 5.10           |
| 2017/02/09 01:06 | 1.41       | 94.58      | 5.06           |
| 2017/02/09 01:21 | 1.44       | 90.97      | 4.73           |
| 2017/02/09 01:36 | 1.44       | 90.97      | 4.73           |
| 2017/02/09 01:51 | 1.44       | 90.00      | 4.68           |
| 2017/02/09 02:06 | 1.44       | 86.87      | 4.52           |
| 2017/02/09 02:21 | 1.41       | 82.92      | 4.44           |
| 2017/02/09 02:36 | 1.36       | 77.78      | 4.41           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 02:51 | 1.34       | 77.15      | 4.44           |
| 2017/02/09 03:06 | 1.34       | 77.15      | 4.44           |
| 2017/02/09 03:21 | 1.34       | 75.07      | 4.32           |
| 2017/02/09 03:36 | 1.34       | 75.07      | 4.32           |
| 2017/02/09 03:51 | 1.34       | 75.07      | 4.32           |
| 2017/02/09 04:06 | 1.34       | 78.06      | 4.49           |
| 2017/02/09 04:21 | 1.32       | 75.97      | 4.51           |
| 2017/02/09 04:36 | 1.30       | 75.90      | 4.57           |
| 2017/02/09 04:51 | 1.30       | 75.97      | 4.57           |
| 2017/02/09 05:06 | 1.30       | 77.08      | 4.64           |
| 2017/02/09 05:21 | 1.30       | 77.71      | 4.68           |
| 2017/02/09 05:36 | 1.28       | 78.40      | 4.87           |
| 2017/02/09 05:51 | 1.26       | 78.26      | 4.94           |
| 2017/02/09 06:06 | 1.30       | 82.01      | 4.94           |
| 2017/02/09 06:21 | 1.32       | 86.18      | 5.11           |
| 2017/02/09 06:36 | 1.32       | 88.40      | 5.24           |
| 2017/02/09 06:51 | 1.40       | 110.83     | 6.02           |
| 2017/02/09 07:06 | 1.40       | 118.33     | 6.42           |
| 2017/02/09 07:21 | 1.44       | 125.07     | 6.51           |
| 2017/02/09 07:36 | 1.44       | 127.71     | 6.65           |
| 2017/02/09 07:51 | 1.61       | 157.92     | 7.02           |
| 2017/02/09 08:06 | 1.61       | 157.92     | 7.02           |
| 2017/02/09 08:21 | 1.61       | 157.92     | 7.02           |
| 2017/02/09 08:36 | 1.61       | 157.92     | 7.02           |
| 2017/02/09 08:51 | 1.58       | 152.85     | 6.97           |
| 2017/02/09 09:06 | 1.57       | 150.97     | 6.97           |
| 2017/02/09 09:21 | 1.48       | 137.92     | 6.89           |
| 2017/02/09 09:36 | 1.47       | 126.74     | 6.42           |
| 2017/02/09 09:51 | 1.47       | 125.14     | 6.34           |
| 2017/02/09 10:06 | 1.44       | 115.90     | 6.03           |
| 2017/02/09 10:21 | 1.43       | 114.31     | 6.03           |
| 2017/02/09 10:36 | 1.43       | 112.64     | 5.95           |
| 2017/02/09 10:51 | 1.40       | 108.12     | 5.87           |
| 2017/02/09 11:06 | 1.40       | 108.12     | 5.87           |
| 2017/02/09 11:21 | 1.36       | 103.54     | 5.87           |
| 2017/02/09 11:36 | 1.36       | 105.76     | 6.00           |
| 2017/02/09 11:51 | 1.36       | 104.44     | 5.92           |
| 2017/02/09 12:06 | 1.36       | 104.44     | 5.92           |
| 2017/02/09 12:21 | 1.36       | 104.44     | 5.92           |
| 2017/02/09 12:36 | 1.36       | 104.44     | 5.92           |
| 2017/02/09 12:51 | 1.36       | 104.44     | 5.92           |
| 2017/02/09 13:06 | 1.37       | 106.04     | 5.92           |
| 2017/02/09 13:21 | 1.33       | 100.14     | 5.85           |
| 2017/02/09 13:36 | 1.32       | 98.06      | 5.82           |
| 2017/02/09 13:51 | 1.33       | 100.14     | 5.85           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/09 14:06 | 1.33       | 99.58      | 5.82           |
| 2017/02/09 14:21 | 1.33       | 103.40     | 6.04           |
| 2017/02/09 14:36 | 1.33       | 99.58      | 5.82           |
| 2017/02/09 14:51 | 1.33       | 99.58      | 5.82           |
| 2017/02/09 15:06 | 1.32       | 98.06      | 5.82           |
| 2017/02/09 15:21 | 1.33       | 100.00     | 5.84           |
| 2017/02/09 15:36 | 1.36       | 102.99     | 5.84           |
| 2017/02/09 15:51 | 1.36       | 102.99     | 5.84           |
| 2017/02/09 16:06 | 1.36       | 102.99     | 5.84           |
| 2017/02/09 16:21 | 1.36       | 102.99     | 5.84           |
| 2017/02/09 16:36 | 1.36       | 103.96     | 5.89           |
| 2017/02/09 16:51 | 1.36       | 103.96     | 5.89           |
| 2017/02/09 17:06 | 1.34       | 103.33     | 5.95           |
| 2017/02/09 17:21 | 1.29       | 94.24      | 5.76           |
| 2017/02/09 17:36 | 1.34       | 103.33     | 5.95           |
| 2017/02/09 17:51 | 1.34       | 100.14     | 5.76           |
| 2017/02/09 18:06 | 1.34       | 103.33     | 5.95           |
| 2017/02/09 18:21 | 1.33       | 101.74     | 5.94           |
| 2017/02/09 18:36 | 1.33       | 101.74     | 5.94           |
| 2017/02/09 18:51 | 1.33       | 100.07     | 5.85           |
| 2017/02/09 19:06 | 1.33       | 100.07     | 5.85           |
| 2017/02/09 19:21 | 1.33       | 97.50      | 5.69           |
| 2017/02/09 19:36 | 1.30       | 94.58      | 5.69           |
| 2017/02/09 19:51 | 1.30       | 94.58      | 5.69           |
| 2017/02/09 20:06 | 1.33       | 97.50      | 5.69           |
| 2017/02/09 20:21 | 1.37       | 104.31     | 5.83           |
| 2017/02/09 20:36 | 1.43       | 110.49     | 5.83           |
| 2017/02/09 20:51 | 1.44       | 121.11     | 6.30           |
| 2017/02/09 21:06 | 1.44       | 122.15     | 6.36           |
| 2017/02/09 21:21 | 1.44       | 122.15     | 6.36           |
| 2017/02/09 21:36 | 1.48       | 129.10     | 6.45           |
| 2017/02/09 21:51 | 1.48       | 129.10     | 6.45           |
| 2017/02/09 22:06 | 1.48       | 126.18     | 6.30           |
| 2017/02/09 22:21 | 1.48       | 125.83     | 6.29           |
| 2017/02/09 22:36 | 1.46       | 122.50     | 6.29           |
| 2017/02/09 22:51 | 1.43       | 118.54     | 6.26           |
| 2017/02/09 23:06 | 1.43       | 117.50     | 6.20           |
| 2017/02/09 23:21 | 1.41       | 112.08     | 6.00           |
| 2017/02/09 23:36 | 1.34       | 101.74     | 5.85           |
| 2017/02/09 23:51 | 1.33       | 99.93      | 5.84           |
| 2017/02/10 00:06 | 1.32       | 96.74      | 5.74           |
| 2017/02/10 00:21 | 1.25       | 88.33      | 5.67           |
| 2017/02/10 00:36 | 1.22       | 76.18      | 5.05           |
| 2017/02/10 00:51 | 1.19       | 73.68      | 5.05           |
| 2017/02/10 01:06 | 1.19       | 66.74      | 4.57           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 01:21 | 1.18       | 65.00      | 4.53           |
| 2017/02/10 01:36 | 1.15       | 62.71      | 4.52           |
| 2017/02/10 01:51 | 1.15       | 59.93      | 4.32           |
| 2017/02/10 02:06 | 1.15       | 57.43      | 4.14           |
| 2017/02/10 02:21 | 1.14       | 55.76      | 4.09           |
| 2017/02/10 02:36 | 1.12       | 52.57      | 3.93           |
| 2017/02/10 02:51 | 1.12       | 52.36      | 3.91           |
| 2017/02/10 03:06 | 1.12       | 52.36      | 3.91           |
| 2017/02/10 03:21 | 1.12       | 52.36      | 3.91           |
| 2017/02/10 03:36 | 1.12       | 52.36      | 3.91           |
| 2017/02/10 03:51 | 1.12       | 52.36      | 3.91           |
| 2017/02/10 04:06 | 1.12       | 52.36      | 3.91           |
| 2017/02/10 04:21 | 1.14       | 52.43      | 3.85           |
| 2017/02/10 04:36 | 1.14       | 52.43      | 3.85           |
| 2017/02/10 04:51 | 1.14       | 52.43      | 3.85           |
| 2017/02/10 05:06 | 1.15       | 53.40      | 3.85           |
| 2017/02/10 05:21 | 1.15       | 58.12      | 4.19           |
| 2017/02/10 05:36 | 1.15       | 58.61      | 4.23           |
| 2017/02/10 05:51 | 1.18       | 65.35      | 4.55           |
| 2017/02/10 06:06 | 1.26       | 72.08      | 4.55           |
| 2017/02/10 06:21 | 1.28       | 73.26      | 4.55           |
| 2017/02/10 06:36 | 1.28       | 85.76      | 5.33           |
| 2017/02/10 06:51 | 1.32       | 92.15      | 5.46           |
| 2017/02/10 07:06 | 1.32       | 95.07      | 5.64           |
| 2017/02/10 07:21 | 1.32       | 95.69      | 5.68           |
| 2017/02/10 07:36 | 1.43       | 117.29     | 6.19           |
| 2017/02/10 07:51 | 1.59       | 149.93     | 6.75           |
| 2017/02/10 08:06 | 1.61       | 157.01     | 6.99           |
| 2017/02/10 08:21 | 1.61       | 157.01     | 6.99           |
| 2017/02/10 08:36 | 1.61       | 157.01     | 6.99           |
| 2017/02/10 08:51 | 1.59       | 151.04     | 6.80           |
| 2017/02/10 09:06 | 1.53       | 141.74     | 6.80           |
| 2017/02/10 09:21 | 1.51       | 138.61     | 6.74           |
| 2017/02/10 09:36 | 1.51       | 138.19     | 6.72           |
| 2017/02/10 09:51 | 1.48       | 134.03     | 6.70           |
| 2017/02/10 10:06 | 1.48       | 130.28     | 6.51           |
| 2017/02/10 10:21 | 1.48       | 131.53     | 6.57           |
| 2017/02/10 10:36 | 1.48       | 130.28     | 6.51           |
| 2017/02/10 10:51 | 1.47       | 127.01     | 6.43           |
| 2017/02/10 11:06 | 1.44       | 122.08     | 6.35           |
| 2017/02/10 11:21 | 1.43       | 116.32     | 6.14           |
| 2017/02/10 11:36 | 1.43       | 116.32     | 6.14           |
| 2017/02/10 11:51 | 1.40       | 113.06     | 6.14           |
| 2017/02/10 12:06 | 1.37       | 107.99     | 6.04           |
| 2017/02/10 12:21 | 1.37       | 107.29     | 5.99           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 12:36 | 1.37       | 107.01     | 5.98           |
| 2017/02/10 12:51 | 1.36       | 105.00     | 5.95           |
| 2017/02/10 13:06 | 1.33       | 100.00     | 5.84           |
| 2017/02/10 13:21 | 1.33       | 100.00     | 5.84           |
| 2017/02/10 13:36 | 1.33       | 96.74      | 5.65           |
| 2017/02/10 13:51 | 1.32       | 94.79      | 5.62           |
| 2017/02/10 14:06 | 1.32       | 95.28      | 5.65           |
| 2017/02/10 14:21 | 1.33       | 101.94     | 5.95           |
| 2017/02/10 14:36 | 1.34       | 104.10     | 5.99           |
| 2017/02/10 14:51 | 1.39       | 111.94     | 6.16           |
| 2017/02/10 15:06 | 1.40       | 115.07     | 6.25           |
| 2017/02/10 15:21 | 1.40       | 115.07     | 6.25           |
| 2017/02/10 15:36 | 1.40       | 115.07     | 6.25           |
| 2017/02/10 15:51 | 1.41       | 118.40     | 6.34           |
| 2017/02/10 16:06 | 1.41       | 121.39     | 6.50           |
| 2017/02/10 16:21 | 1.50       | 132.15     | 6.51           |
| 2017/02/10 16:36 | 1.50       | 132.15     | 6.51           |
| 2017/02/10 16:51 | 1.40       | 112.01     | 6.08           |
| 2017/02/10 17:06 | 1.50       | 123.33     | 6.08           |
| 2017/02/10 17:21 | 1.51       | 133.89     | 6.51           |
| 2017/02/10 17:36 | 1.50       | 124.51     | 6.14           |
| 2017/02/10 17:51 | 1.50       | 124.51     | 6.14           |
| 2017/02/10 18:06 | 1.44       | 117.99     | 6.14           |
| 2017/02/10 18:21 | 1.50       | 126.87     | 6.25           |
| 2017/02/10 18:36 | 1.51       | 132.22     | 6.43           |
| 2017/02/10 18:51 | 1.51       | 134.51     | 6.54           |
| 2017/02/10 19:06 | 1.51       | 134.51     | 6.54           |
| 2017/02/10 19:21 | 1.58       | 143.47     | 6.54           |
| 2017/02/10 19:36 | 1.58       | 141.04     | 6.43           |
| 2017/02/10 19:51 | 1.58       | 141.04     | 6.43           |
| 2017/02/10 20:06 | 1.58       | 144.51     | 6.59           |
| 2017/02/10 20:21 | 1.57       | 138.89     | 6.41           |
| 2017/02/10 20:36 | 1.57       | 137.99     | 6.37           |
| 2017/02/10 20:51 | 1.57       | 137.99     | 6.37           |
| 2017/02/10 21:06 | 1.57       | 138.89     | 6.41           |
| 2017/02/10 21:21 | 1.54       | 138.19     | 6.55           |
| 2017/02/10 21:36 | 1.51       | 134.65     | 6.55           |
| 2017/02/10 21:51 | 1.51       | 130.97     | 6.37           |
| 2017/02/10 22:06 | 1.51       | 130.97     | 6.37           |
| 2017/02/10 22:21 | 1.44       | 115.49     | 6.01           |
| 2017/02/10 22:36 | 1.43       | 113.89     | 6.01           |
| 2017/02/10 22:51 | 1.39       | 106.25     | 5.85           |
| 2017/02/10 23:06 | 1.39       | 106.25     | 5.85           |
| 2017/02/10 23:21 | 1.39       | 103.12     | 5.68           |
| 2017/02/10 23:36 | 1.39       | 101.67     | 5.60           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/10 23:51 | 1.39       | 101.67     | 5.60           |
| 2017/02/11 00:06 | 1.39       | 101.67     | 5.60           |
| 2017/02/11 00:21 | 1.36       | 98.75      | 5.60           |
| 2017/02/11 00:36 | 1.30       | 88.06      | 5.30           |
| 2017/02/11 00:51 | 1.28       | 84.58      | 5.26           |
| 2017/02/11 01:06 | 1.28       | 84.58      | 5.26           |
| 2017/02/11 01:21 | 1.16       | 68.40      | 4.85           |
| 2017/02/11 01:36 | 1.15       | 64.37      | 4.64           |
| 2017/02/11 01:51 | 1.15       | 62.36      | 4.50           |
| 2017/02/11 02:06 | 1.14       | 61.25      | 4.50           |
| 2017/02/11 02:21 | 1.11       | 59.10      | 4.50           |
| 2017/02/11 02:36 | 1.11       | 59.10      | 4.50           |
| 2017/02/11 02:51 | 1.11       | 57.71      | 4.39           |
| 2017/02/11 03:06 | 1.09       | 51.04      | 3.96           |
| 2017/02/11 03:21 | 1.09       | 51.04      | 3.96           |
| 2017/02/11 03:36 | 1.09       | 51.04      | 3.96           |
| 2017/02/11 03:51 | 1.08       | 48.89      | 3.86           |
| 2017/02/11 04:06 | 1.09       | 48.89      | 3.79           |
| 2017/02/11 04:21 | 1.09       | 48.89      | 3.79           |
| 2017/02/11 04:36 | 1.12       | 48.40      | 3.62           |
| 2017/02/11 04:51 | 1.12       | 51.67      | 3.86           |
| 2017/02/11 05:06 | 1.09       | 49.79      | 3.86           |
| 2017/02/11 05:21 | 1.09       | 49.79      | 3.86           |
| 2017/02/11 05:36 | 1.11       | 53.82      | 4.10           |
| 2017/02/11 05:51 | 1.11       | 55.56      | 4.23           |
| 2017/02/11 06:06 | 1.11       | 55.56      | 4.23           |
| 2017/02/11 06:21 | 1.11       | 57.01      | 4.34           |
| 2017/02/11 06:36 | 1.12       | 58.06      | 4.34           |
| 2017/02/11 06:51 | 1.15       | 60.49      | 4.36           |
| 2017/02/11 07:06 | 1.23       | 66.94      | 4.36           |
| 2017/02/11 07:21 | 1.25       | 81.60      | 5.23           |
| 2017/02/11 07:36 | 1.29       | 85.56      | 5.23           |
| 2017/02/11 07:51 | 1.30       | 94.51      | 5.69           |
| 2017/02/11 08:06 | 1.30       | 96.11      | 5.79           |
| 2017/02/11 08:21 | 1.37       | 104.24     | 5.83           |
| 2017/02/11 08:36 | 1.37       | 104.24     | 5.83           |
| 2017/02/11 08:51 | 1.39       | 110.28     | 6.07           |
| 2017/02/11 09:06 | 1.41       | 113.82     | 6.09           |
| 2017/02/11 09:21 | 1.44       | 117.01     | 6.09           |
| 2017/02/11 09:36 | 1.44       | 125.97     | 6.56           |
| 2017/02/11 09:51 | 1.46       | 129.37     | 6.64           |
| 2017/02/11 10:06 | 1.47       | 132.29     | 6.70           |
| 2017/02/11 10:21 | 1.54       | 143.26     | 6.79           |
| 2017/02/11 10:36 | 1.59       | 148.75     | 6.70           |
| 2017/02/11 10:51 | 1.59       | 154.93     | 6.98           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 11:06 | 1.55       | 144.03     | 6.74           |
| 2017/02/11 11:21 | 1.62       | 158.82     | 6.98           |
| 2017/02/11 11:36 | 1.62       | 158.82     | 6.98           |
| 2017/02/11 11:51 | 1.61       | 151.46     | 6.74           |
| 2017/02/11 12:06 | 1.61       | 151.46     | 6.74           |
| 2017/02/11 12:21 | 1.61       | 156.87     | 6.98           |
| 2017/02/11 12:36 | 1.61       | 155.56     | 6.92           |
| 2017/02/11 12:51 | 1.61       | 155.56     | 6.92           |
| 2017/02/11 13:06 | 1.59       | 149.17     | 6.72           |
| 2017/02/11 13:21 | 1.54       | 141.81     | 6.72           |
| 2017/02/11 13:36 | 1.54       | 141.81     | 6.72           |
| 2017/02/11 13:51 | 1.48       | 133.61     | 6.67           |
| 2017/02/11 14:06 | 1.48       | 129.51     | 6.47           |
| 2017/02/11 14:21 | 1.48       | 126.67     | 6.33           |
| 2017/02/11 14:36 | 1.48       | 122.36     | 6.11           |
| 2017/02/11 14:51 | 1.44       | 116.67     | 6.07           |
| 2017/02/11 15:06 | 1.43       | 115.00     | 6.07           |
| 2017/02/11 15:21 | 1.40       | 109.65     | 5.95           |
| 2017/02/11 15:36 | 1.39       | 108.06     | 5.95           |
| 2017/02/11 15:51 | 1.39       | 108.06     | 5.95           |
| 2017/02/11 16:06 | 1.39       | 108.06     | 5.95           |
| 2017/02/11 16:21 | 1.40       | 112.01     | 6.08           |
| 2017/02/11 16:36 | 1.40       | 115.14     | 6.25           |
| 2017/02/11 16:51 | 1.40       | 112.01     | 6.08           |
| 2017/02/11 17:06 | 1.40       | 112.57     | 6.11           |
| 2017/02/11 17:21 | 1.40       | 112.57     | 6.11           |
| 2017/02/11 17:36 | 1.40       | 113.61     | 6.17           |
| 2017/02/11 17:51 | 1.39       | 112.99     | 6.22           |
| 2017/02/11 18:06 | 1.37       | 111.39     | 6.22           |
| 2017/02/11 18:21 | 1.37       | 111.39     | 6.22           |
| 2017/02/11 18:36 | 1.37       | 111.39     | 6.22           |
| 2017/02/11 18:51 | 1.37       | 111.39     | 6.22           |
| 2017/02/11 19:06 | 1.34       | 108.12     | 6.22           |
| 2017/02/11 19:21 | 1.34       | 103.54     | 5.96           |
| 2017/02/11 19:36 | 1.34       | 103.54     | 5.96           |
| 2017/02/11 19:51 | 1.34       | 103.54     | 5.96           |
| 2017/02/11 20:06 | 1.34       | 103.54     | 5.96           |
| 2017/02/11 20:21 | 1.34       | 103.54     | 5.96           |
| 2017/02/11 20:36 | 1.34       | 106.81     | 6.15           |
| 2017/02/11 20:51 | 1.39       | 111.94     | 6.16           |
| 2017/02/11 21:06 | 1.40       | 115.69     | 6.28           |
| 2017/02/11 21:21 | 1.40       | 113.54     | 6.16           |
| 2017/02/11 21:36 | 1.39       | 111.94     | 6.16           |
| 2017/02/11 21:51 | 1.36       | 107.78     | 6.11           |
| 2017/02/11 22:06 | 1.36       | 107.78     | 6.11           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/11 22:21 | 1.29       | 97.36      | 5.96           |
| 2017/02/11 22:36 | 1.29       | 95.97      | 5.87           |
| 2017/02/11 22:51 | 1.28       | 94.44      | 5.87           |
| 2017/02/11 23:06 | 1.28       | 95.83      | 5.96           |
| 2017/02/11 23:21 | 1.21       | 75.56      | 5.09           |
| 2017/02/11 23:36 | 1.19       | 74.31      | 5.09           |
| 2017/02/11 23:51 | 1.19       | 75.49      | 5.17           |
| 2017/02/12 00:06 | 1.21       | 76.94      | 5.18           |
| 2017/02/12 00:21 | 1.26       | 89.79      | 5.67           |
| 2017/02/12 00:36 | 1.22       | 78.19      | 5.18           |
| 2017/02/12 00:51 | 1.19       | 75.49      | 5.17           |
| 2017/02/12 01:06 | 1.19       | 75.49      | 5.17           |
| 2017/02/12 01:21 | 1.22       | 74.58      | 4.94           |
| 2017/02/12 01:36 | 1.22       | 72.64      | 4.81           |
| 2017/02/12 01:51 | 1.22       | 70.56      | 4.68           |
| 2017/02/12 02:06 | 1.22       | 67.64      | 4.48           |
| 2017/02/12 02:21 | 1.22       | 62.15      | 4.12           |
| 2017/02/12 02:36 | 1.25       | 64.03      | 4.11           |
| 2017/02/12 02:51 | 1.26       | 64.24      | 4.05           |
| 2017/02/12 03:06 | 1.26       | 64.24      | 4.05           |
| 2017/02/12 03:21 | 1.26       | 65.07      | 4.11           |
| 2017/02/12 03:36 | 1.26       | 65.07      | 4.11           |
| 2017/02/12 03:51 | 1.26       | 60.76      | 3.84           |
| 2017/02/12 04:06 | 1.28       | 61.74      | 3.83           |
| 2017/02/12 04:21 | 1.28       | 61.74      | 3.84           |
| 2017/02/12 04:36 | 1.26       | 63.89      | 4.03           |
| 2017/02/12 04:51 | 1.25       | 62.85      | 4.03           |
| 2017/02/12 05:06 | 1.23       | 61.87      | 4.03           |
| 2017/02/12 05:21 | 1.23       | 63.68      | 4.15           |
| 2017/02/12 05:36 | 1.23       | 63.68      | 4.15           |
| 2017/02/12 05:51 | 1.22       | 62.71      | 4.16           |
| 2017/02/12 06:06 | 1.22       | 62.71      | 4.16           |
| 2017/02/12 06:21 | 1.22       | 63.82      | 4.23           |
| 2017/02/12 06:36 | 1.19       | 63.06      | 4.32           |
| 2017/02/12 06:51 | 1.19       | 63.19      | 4.33           |
| 2017/02/12 07:06 | 1.18       | 62.29      | 4.34           |
| 2017/02/12 07:21 | 1.18       | 67.57      | 4.71           |
| 2017/02/12 07:36 | 1.18       | 73.61      | 5.13           |
| 2017/02/12 07:51 | 1.19       | 75.07      | 5.15           |
| 2017/02/12 08:06 | 1.23       | 80.97      | 5.28           |
| 2017/02/12 08:21 | 1.32       | 95.90      | 5.69           |
| 2017/02/12 08:36 | 1.33       | 99.58      | 5.82           |
| 2017/02/12 08:51 | 1.37       | 112.85     | 6.30           |
| 2017/02/12 09:06 | 1.50       | 130.42     | 6.43           |
| 2017/02/12 09:21 | 1.50       | 135.49     | 6.68           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 09:36 | 1.53       | 141.04     | 6.77           |
| 2017/02/12 09:51 | 1.57       | 147.36     | 6.81           |
| 2017/02/12 10:06 | 1.57       | 147.36     | 6.81           |
| 2017/02/12 10:21 | 1.57       | 152.43     | 7.04           |
| 2017/02/12 10:36 | 1.57       | 152.43     | 7.04           |
| 2017/02/12 10:51 | 1.57       | 152.99     | 7.07           |
| 2017/02/12 11:06 | 1.57       | 155.49     | 7.18           |
| 2017/02/12 11:21 | 1.68       | 173.12     | 7.25           |
| 2017/02/12 11:36 | 1.66       | 173.68     | 7.36           |
| 2017/02/12 11:51 | 1.66       | 173.68     | 7.36           |
| 2017/02/12 12:06 | 1.66       | 173.68     | 7.36           |
| 2017/02/12 12:21 | 1.66       | 173.68     | 7.36           |
| 2017/02/12 12:36 | 1.66       | 173.68     | 7.36           |
| 2017/02/12 12:51 | 1.61       | 160.76     | 7.15           |
| 2017/02/12 13:06 | 1.55       | 152.57     | 7.14           |
| 2017/02/12 13:21 | 1.51       | 139.86     | 6.80           |
| 2017/02/12 13:36 | 1.51       | 137.85     | 6.71           |
| 2017/02/12 13:51 | 1.48       | 129.03     | 6.45           |
| 2017/02/12 14:06 | 1.46       | 125.62     | 6.45           |
| 2017/02/12 14:21 | 1.44       | 123.06     | 6.41           |
| 2017/02/12 14:36 | 1.39       | 116.32     | 6.41           |
| 2017/02/12 14:51 | 1.39       | 116.32     | 6.41           |
| 2017/02/12 15:06 | 1.37       | 109.93     | 6.14           |
| 2017/02/12 15:21 | 1.39       | 116.32     | 6.41           |
| 2017/02/12 15:36 | 1.39       | 116.32     | 6.41           |
| 2017/02/12 15:51 | 1.39       | 113.89     | 6.27           |
| 2017/02/12 16:06 | 1.39       | 113.47     | 6.25           |
| 2017/02/12 16:21 | 1.40       | 115.49     | 6.27           |
| 2017/02/12 16:36 | 1.40       | 115.49     | 6.27           |
| 2017/02/12 16:51 | 1.43       | 118.82     | 6.27           |
| 2017/02/12 17:06 | 1.43       | 118.82     | 6.27           |
| 2017/02/12 17:21 | 1.43       | 121.60     | 6.42           |
| 2017/02/12 17:36 | 1.43       | 121.60     | 6.42           |
| 2017/02/12 17:51 | 1.43       | 121.60     | 6.42           |
| 2017/02/12 18:06 | 1.43       | 118.89     | 6.27           |
| 2017/02/12 18:21 | 1.41       | 116.04     | 6.21           |
| 2017/02/12 18:36 | 1.41       | 117.22     | 6.27           |
| 2017/02/12 18:51 | 1.41       | 117.22     | 6.27           |
| 2017/02/12 19:06 | 1.41       | 117.22     | 6.27           |
| 2017/02/12 19:21 | 1.41       | 117.22     | 6.27           |
| 2017/02/12 19:36 | 1.41       | 113.82     | 6.09           |
| 2017/02/12 19:51 | 1.40       | 111.46     | 6.05           |
| 2017/02/12 20:06 | 1.33       | 100.35     | 5.86           |
| 2017/02/12 20:21 | 1.33       | 100.35     | 5.86           |
| 2017/02/12 20:36 | 1.33       | 100.35     | 5.86           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/12 20:51 | 1.33       | 100.35     | 5.86           |
| 2017/02/12 21:06 | 1.37       | 109.86     | 6.14           |
| 2017/02/12 21:21 | 1.39       | 112.78     | 6.21           |
| 2017/02/12 21:36 | 1.39       | 112.78     | 6.21           |
| 2017/02/12 21:51 | 1.39       | 112.78     | 6.21           |
| 2017/02/12 22:06 | 1.39       | 112.78     | 6.21           |
| 2017/02/12 22:21 | 1.34       | 104.93     | 6.04           |
| 2017/02/12 22:36 | 1.25       | 89.31      | 5.73           |
| 2017/02/12 22:51 | 1.25       | 89.31      | 5.73           |
| 2017/02/12 23:06 | 1.23       | 85.00      | 5.54           |
| 2017/02/12 23:21 | 1.25       | 86.67      | 5.56           |
| 2017/02/12 23:36 | 1.23       | 85.28      | 5.56           |
| 2017/02/12 23:51 | 1.22       | 83.61      | 5.54           |
| 2017/02/13 00:06 | 1.21       | 79.17      | 5.33           |
| 2017/02/13 00:21 | 1.16       | 75.21      | 5.33           |
| 2017/02/13 00:36 | 1.11       | 64.10      | 4.88           |
| 2017/02/13 00:51 | 1.11       | 62.57      | 4.76           |
| 2017/02/13 01:06 | 1.11       | 62.57      | 4.76           |
| 2017/02/13 01:21 | 1.08       | 60.14      | 4.75           |
| 2017/02/13 01:36 | 1.08       | 57.99      | 4.58           |
| 2017/02/13 01:51 | 1.08       | 57.08      | 4.51           |
| 2017/02/13 02:06 | 1.08       | 56.94      | 4.50           |
| 2017/02/13 02:21 | 1.08       | 56.94      | 4.50           |
| 2017/02/13 02:36 | 1.08       | 56.81      | 4.48           |
| 2017/02/13 02:51 | 1.08       | 50.97      | 4.03           |
| 2017/02/13 03:06 | 1.09       | 50.07      | 3.88           |
| 2017/02/13 03:21 | 1.09       | 48.47      | 3.76           |
| 2017/02/13 03:36 | 1.09       | 48.47      | 3.76           |
| 2017/02/13 03:51 | 1.11       | 48.26      | 3.67           |
| 2017/02/13 04:06 | 1.11       | 48.26      | 3.67           |
| 2017/02/13 04:21 | 1.11       | 48.26      | 3.67           |
| 2017/02/13 04:36 | 1.11       | 50.83      | 3.87           |
| 2017/02/13 04:51 | 1.11       | 51.25      | 3.90           |
| 2017/02/13 05:06 | 1.14       | 53.68      | 3.94           |
| 2017/02/13 05:21 | 1.14       | 57.01      | 4.19           |
| 2017/02/13 05:36 | 1.14       | 57.01      | 4.19           |
| 2017/02/13 05:51 | 1.14       | 57.36      | 4.21           |
| 2017/02/13 06:06 | 1.14       | 57.50      | 4.22           |
| 2017/02/13 06:21 | 1.14       | 58.96      | 4.33           |
| 2017/02/13 06:36 | 1.16       | 73.68      | 5.23           |
| 2017/02/13 06:51 | 1.26       | 89.24      | 5.63           |
| 2017/02/13 07:06 | 1.28       | 91.11      | 5.66           |
| 2017/02/13 07:21 | 1.36       | 106.81     | 6.05           |
| 2017/02/13 07:36 | 1.50       | 123.61     | 6.09           |
| 2017/02/13 07:51 | 1.53       | 140.83     | 6.76           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 08:06 | 1.55       | 144.93     | 6.78           |
| 2017/02/13 08:21 | 1.59       | 156.81     | 7.06           |
| 2017/02/13 08:36 | 1.64       | 164.37     | 7.14           |
| 2017/02/13 08:51 | 1.64       | 164.51     | 7.14           |
| 2017/02/13 09:06 | 1.64       | 164.51     | 7.14           |
| 2017/02/13 09:21 | 1.64       | 164.51     | 7.14           |
| 2017/02/13 09:36 | 1.64       | 163.75     | 7.11           |
| 2017/02/13 09:51 | 1.58       | 154.86     | 7.06           |
| 2017/02/13 10:06 | 1.50       | 136.94     | 6.75           |
| 2017/02/13 10:21 | 1.48       | 134.44     | 6.72           |
| 2017/02/13 10:36 | 1.48       | 134.44     | 6.72           |
| 2017/02/13 10:51 | 1.48       | 134.44     | 6.72           |
| 2017/02/13 11:06 | 1.47       | 132.29     | 6.70           |
| 2017/02/13 11:21 | 1.47       | 132.29     | 6.70           |
| 2017/02/13 11:36 | 1.48       | 134.44     | 6.72           |
| 2017/02/13 11:51 | 1.48       | 134.44     | 6.72           |
| 2017/02/13 12:06 | 1.48       | 134.10     | 6.70           |
| 2017/02/13 12:21 | 1.47       | 129.72     | 6.57           |
| 2017/02/13 12:36 | 1.40       | 114.37     | 6.21           |
| 2017/02/13 12:51 | 1.37       | 108.89     | 6.08           |
| 2017/02/13 13:06 | 1.37       | 108.89     | 6.08           |
| 2017/02/13 13:21 | 1.36       | 101.11     | 5.73           |
| 2017/02/13 13:36 | 1.30       | 94.51      | 5.69           |
| 2017/02/13 13:51 | 1.25       | 85.62      | 5.49           |
| 2017/02/13 14:06 | 1.25       | 84.24      | 5.40           |
| 2017/02/13 14:21 | 1.25       | 83.19      | 5.34           |
| 2017/02/13 14:36 | 1.22       | 80.56      | 5.34           |
| 2017/02/13 14:51 | 1.21       | 79.24      | 5.34           |
| 2017/02/13 15:06 | 1.19       | 77.92      | 5.34           |
| 2017/02/13 15:21 | 1.19       | 75.14      | 5.15           |
| 2017/02/13 15:36 | 1.21       | 79.24      | 5.34           |
| 2017/02/13 15:51 | 1.26       | 85.56      | 5.40           |
| 2017/02/13 16:06 | 1.26       | 90.28      | 5.70           |
| 2017/02/13 16:21 | 1.28       | 94.44      | 5.87           |
| 2017/02/13 16:36 | 1.28       | 94.44      | 5.87           |
| 2017/02/13 16:51 | 1.29       | 96.25      | 5.89           |
| 2017/02/13 17:06 | 1.33       | 101.25     | 5.92           |
| 2017/02/13 17:21 | 1.29       | 96.25      | 5.89           |
| 2017/02/13 17:36 | 1.34       | 102.29     | 5.89           |
| 2017/02/13 17:51 | 1.34       | 102.36     | 5.89           |
| 2017/02/13 18:06 | 1.34       | 102.36     | 5.89           |
| 2017/02/13 18:21 | 1.36       | 104.51     | 5.93           |
| 2017/02/13 18:36 | 1.36       | 108.26     | 6.14           |
| 2017/02/13 18:51 | 1.36       | 108.26     | 6.14           |
| 2017/02/13 19:06 | 1.37       | 111.81     | 6.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/13 19:21 | 1.40       | 116.04     | 6.30           |
| 2017/02/13 19:36 | 1.44       | 123.19     | 6.41           |
| 2017/02/13 19:51 | 1.47       | 126.67     | 6.41           |
| 2017/02/13 20:06 | 1.50       | 139.10     | 6.86           |
| 2017/02/13 20:21 | 1.50       | 139.10     | 6.86           |
| 2017/02/13 20:36 | 1.50       | 139.10     | 6.86           |
| 2017/02/13 20:51 | 1.54       | 144.72     | 6.86           |
| 2017/02/13 21:06 | 1.54       | 142.92     | 6.77           |
| 2017/02/13 21:21 | 1.48       | 135.56     | 6.77           |
| 2017/02/13 21:36 | 1.48       | 135.56     | 6.77           |
| 2017/02/13 21:51 | 1.48       | 135.49     | 6.77           |
| 2017/02/13 22:06 | 1.48       | 134.79     | 6.73           |
| 2017/02/13 22:21 | 1.48       | 134.79     | 6.73           |
| 2017/02/13 22:36 | 1.43       | 124.37     | 6.56           |
| 2017/02/13 22:51 | 1.41       | 115.97     | 6.21           |
| 2017/02/13 23:06 | 1.41       | 115.97     | 6.21           |
| 2017/02/13 23:21 | 1.37       | 106.60     | 5.96           |
| 2017/02/13 23:36 | 1.32       | 100.42     | 5.96           |
| 2017/02/13 23:51 | 1.22       | 84.31      | 5.59           |
| 2017/02/14 00:06 | 1.22       | 83.61      | 5.54           |
| 2017/02/14 00:21 | 1.15       | 72.15      | 5.21           |
| 2017/02/14 00:36 | 1.14       | 69.44      | 5.10           |
| 2017/02/14 00:51 | 1.12       | 63.82      | 4.77           |
| 2017/02/14 01:06 | 1.12       | 63.26      | 4.73           |
| 2017/02/14 01:21 | 1.11       | 60.69      | 4.62           |
| 2017/02/14 01:36 | 1.11       | 60.69      | 4.62           |
| 2017/02/14 01:51 | 1.11       | 61.87      | 4.71           |
| 2017/02/14 02:06 | 1.11       | 61.87      | 4.71           |
| 2017/02/14 02:21 | 1.16       | 66.46      | 4.71           |
| 2017/02/14 02:36 | 1.18       | 67.57      | 4.71           |
| 2017/02/14 02:51 | 1.19       | 68.75      | 4.71           |
| 2017/02/14 03:06 | 1.19       | 68.75      | 4.71           |
| 2017/02/14 03:21 | 1.21       | 69.86      | 4.71           |
| 2017/02/14 03:36 | 1.23       | 72.08      | 4.70           |
| 2017/02/14 03:51 | 1.23       | 72.08      | 4.70           |
| 2017/02/14 04:06 | 1.23       | 69.72      | 4.55           |
| 2017/02/14 04:21 | 1.22       | 68.26      | 4.52           |
| 2017/02/14 04:36 | 1.22       | 66.94      | 4.44           |
| 2017/02/14 04:51 | 1.22       | 66.94      | 4.44           |
| 2017/02/14 05:06 | 1.22       | 69.24      | 4.59           |
| 2017/02/14 05:21 | 1.22       | 69.24      | 4.59           |
| 2017/02/14 05:36 | 1.23       | 70.42      | 4.59           |
| 2017/02/14 05:51 | 1.23       | 78.68      | 5.13           |
| 2017/02/14 06:06 | 1.30       | 89.31      | 5.38           |
| 2017/02/14 06:21 | 1.32       | 90.90      | 5.39           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 06:36 | 1.32       | 91.87      | 5.45           |
| 2017/02/14 06:51 | 1.36       | 107.29     | 6.08           |
| 2017/02/14 07:06 | 1.40       | 114.37     | 6.21           |
| 2017/02/14 07:21 | 1.51       | 137.08     | 6.67           |
| 2017/02/14 07:36 | 1.57       | 151.67     | 7.01           |
| 2017/02/14 07:51 | 1.57       | 152.08     | 7.03           |
| 2017/02/14 08:06 | 1.68       | 167.78     | 7.03           |
| 2017/02/14 08:21 | 1.69       | 174.58     | 7.23           |
| 2017/02/14 08:36 | 1.69       | 174.79     | 7.23           |
| 2017/02/14 08:51 | 1.69       | 174.79     | 7.23           |
| 2017/02/14 09:06 | 1.68       | 172.57     | 7.23           |
| 2017/02/14 09:21 | 1.68       | 170.14     | 7.12           |
| 2017/02/14 09:36 | 1.66       | 162.99     | 6.91           |
| 2017/02/14 09:51 | 1.66       | 163.40     | 6.92           |
| 2017/02/14 10:06 | 1.54       | 145.76     | 6.91           |
| 2017/02/14 10:21 | 1.53       | 137.57     | 6.60           |
| 2017/02/14 10:36 | 1.46       | 127.57     | 6.55           |
| 2017/02/14 10:51 | 1.46       | 127.08     | 6.52           |
| 2017/02/14 11:06 | 1.46       | 125.76     | 6.46           |
| 2017/02/14 11:21 | 1.39       | 111.94     | 6.16           |
| 2017/02/14 11:36 | 1.39       | 111.94     | 6.16           |
| 2017/02/14 11:51 | 1.43       | 113.89     | 6.01           |
| 2017/02/14 12:06 | 1.39       | 108.33     | 5.97           |
| 2017/02/14 12:21 | 1.36       | 104.10     | 5.90           |
| 2017/02/14 12:36 | 1.39       | 108.33     | 5.97           |
| 2017/02/14 12:51 | 1.40       | 110.69     | 6.01           |
| 2017/02/14 13:06 | 1.40       | 110.69     | 6.01           |
| 2017/02/14 13:21 | 1.40       | 109.93     | 5.97           |
| 2017/02/14 13:36 | 1.39       | 108.33     | 5.96           |
| 2017/02/14 13:51 | 1.39       | 108.33     | 5.96           |
| 2017/02/14 14:06 | 1.39       | 108.33     | 5.96           |
| 2017/02/14 14:21 | 1.37       | 106.18     | 5.93           |
| 2017/02/14 14:36 | 1.30       | 98.33      | 5.92           |
| 2017/02/14 14:51 | 1.30       | 96.74      | 5.83           |
| 2017/02/14 15:06 | 1.29       | 91.81      | 5.61           |
| 2017/02/14 15:21 | 1.29       | 91.81      | 5.61           |
| 2017/02/14 15:36 | 1.29       | 91.81      | 5.61           |
| 2017/02/14 15:51 | 1.29       | 91.81      | 5.61           |
| 2017/02/14 16:06 | 1.34       | 101.18     | 5.82           |
| 2017/02/14 16:21 | 1.36       | 102.71     | 5.82           |
| 2017/02/14 16:36 | 1.36       | 103.40     | 5.86           |
| 2017/02/14 16:51 | 1.37       | 110.14     | 6.15           |
| 2017/02/14 17:06 | 1.39       | 111.74     | 6.15           |
| 2017/02/14 17:21 | 1.44       | 119.37     | 6.21           |
| 2017/02/14 17:36 | 1.44       | 120.07     | 6.25           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/14 17:51 | 1.43       | 116.60     | 6.15           |
| 2017/02/14 18:06 | 1.43       | 118.40     | 6.25           |
| 2017/02/14 18:21 | 1.44       | 120.07     | 6.25           |
| 2017/02/14 18:36 | 1.44       | 120.07     | 6.25           |
| 2017/02/14 18:51 | 1.47       | 124.44     | 6.30           |
| 2017/02/14 19:06 | 1.44       | 120.07     | 6.25           |
| 2017/02/14 19:21 | 1.44       | 121.04     | 6.30           |
| 2017/02/14 19:36 | 1.44       | 122.99     | 6.40           |
| 2017/02/14 19:51 | 1.44       | 122.99     | 6.40           |
| 2017/02/14 20:06 | 1.44       | 121.39     | 6.32           |
| 2017/02/14 20:21 | 1.43       | 119.72     | 6.32           |
| 2017/02/14 20:36 | 1.43       | 119.72     | 6.32           |
| 2017/02/14 20:51 | 1.43       | 121.25     | 6.40           |
| 2017/02/14 21:06 | 1.43       | 119.72     | 6.32           |
| 2017/02/14 21:21 | 1.44       | 121.39     | 6.32           |
| 2017/02/14 21:36 | 1.46       | 128.61     | 6.60           |
| 2017/02/14 21:51 | 1.48       | 132.15     | 6.60           |
| 2017/02/14 22:06 | 1.48       | 132.15     | 6.60           |
| 2017/02/14 22:21 | 1.47       | 129.58     | 6.56           |
| 2017/02/14 22:36 | 1.46       | 121.81     | 6.25           |
| 2017/02/14 22:51 | 1.44       | 120.14     | 6.25           |
| 2017/02/14 23:06 | 1.43       | 110.90     | 5.85           |
| 2017/02/14 23:21 | 1.41       | 109.37     | 5.85           |
| 2017/02/14 23:36 | 1.36       | 102.85     | 5.83           |
| 2017/02/14 23:51 | 1.29       | 92.01      | 5.63           |
| 2017/02/15 00:06 | 1.21       | 73.12      | 4.93           |
| 2017/02/15 00:21 | 1.15       | 68.33      | 4.93           |
| 2017/02/15 00:36 | 1.15       | 67.08      | 4.84           |
| 2017/02/15 00:51 | 1.14       | 65.69      | 4.82           |
| 2017/02/15 01:06 | 1.12       | 59.86      | 4.47           |
| 2017/02/15 01:21 | 1.09       | 57.57      | 4.46           |
| 2017/02/15 01:36 | 1.09       | 55.83      | 4.33           |
| 2017/02/15 01:51 | 1.09       | 55.28      | 4.28           |
| 2017/02/15 02:06 | 1.09       | 52.78      | 4.09           |
| 2017/02/15 02:21 | 1.09       | 51.53      | 3.99           |
| 2017/02/15 02:36 | 1.09       | 48.96      | 3.79           |
| 2017/02/15 02:51 | 1.09       | 48.96      | 3.79           |
| 2017/02/15 03:06 | 1.11       | 49.86      | 3.79           |
| 2017/02/15 03:21 | 1.11       | 49.86      | 3.79           |
| 2017/02/15 03:36 | 1.11       | 51.81      | 3.94           |
| 2017/02/15 03:51 | 1.11       | 49.86      | 3.79           |
| 2017/02/15 04:06 | 1.09       | 50.83      | 3.94           |
| 2017/02/15 04:21 | 1.08       | 50.14      | 3.96           |
| 2017/02/15 04:36 | 1.08       | 50.49      | 3.99           |
| 2017/02/15 04:51 | 1.07       | 50.56      | 4.07           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 05:06 | 1.07       | 52.71      | 4.24           |
| 2017/02/15 05:21 | 1.08       | 53.68      | 4.24           |
| 2017/02/15 05:36 | 1.11       | 56.94      | 4.34           |
| 2017/02/15 05:51 | 1.11       | 56.94      | 4.34           |
| 2017/02/15 06:06 | 1.11       | 62.57      | 4.76           |
| 2017/02/15 06:21 | 1.12       | 65.62      | 4.90           |
| 2017/02/15 06:36 | 1.15       | 72.08      | 5.20           |
| 2017/02/15 06:51 | 1.16       | 73.61      | 5.22           |
| 2017/02/15 07:06 | 1.39       | 107.01     | 5.89           |
| 2017/02/15 07:21 | 1.46       | 117.22     | 6.02           |
| 2017/02/15 07:36 | 1.50       | 132.43     | 6.53           |
| 2017/02/15 07:51 | 1.58       | 144.72     | 6.60           |
| 2017/02/15 08:06 | 1.59       | 155.35     | 7.00           |
| 2017/02/15 08:21 | 1.59       | 155.35     | 7.00           |
| 2017/02/15 08:36 | 1.59       | 155.35     | 7.00           |
| 2017/02/15 08:51 | 1.59       | 155.35     | 7.00           |
| 2017/02/15 09:06 | 1.53       | 140.07     | 6.72           |
| 2017/02/15 09:21 | 1.50       | 135.35     | 6.67           |
| 2017/02/15 09:36 | 1.50       | 135.35     | 6.67           |
| 2017/02/15 09:51 | 1.50       | 135.35     | 6.67           |
| 2017/02/15 10:06 | 1.48       | 133.40     | 6.66           |
| 2017/02/15 10:21 | 1.46       | 128.54     | 6.60           |
| 2017/02/15 10:36 | 1.44       | 126.81     | 6.60           |
| 2017/02/15 10:51 | 1.44       | 123.47     | 6.43           |
| 2017/02/15 11:06 | 1.44       | 123.47     | 6.43           |
| 2017/02/15 11:21 | 1.43       | 114.31     | 6.03           |
| 2017/02/15 11:36 | 1.43       | 114.31     | 6.03           |
| 2017/02/15 11:51 | 1.44       | 119.17     | 6.20           |
| 2017/02/15 12:06 | 1.43       | 114.17     | 6.03           |
| 2017/02/15 12:21 | 1.43       | 112.92     | 5.96           |
| 2017/02/15 12:36 | 1.39       | 109.44     | 6.03           |
| 2017/02/15 12:51 | 1.39       | 109.44     | 6.03           |
| 2017/02/15 13:06 | 1.36       | 105.14     | 5.96           |
| 2017/02/15 13:21 | 1.34       | 100.14     | 5.76           |
| 2017/02/15 13:36 | 1.34       | 100.14     | 5.76           |
| 2017/02/15 13:51 | 1.29       | 92.29      | 5.65           |
| 2017/02/15 14:06 | 1.33       | 98.61      | 5.76           |
| 2017/02/15 14:21 | 1.32       | 93.19      | 5.53           |
| 2017/02/15 14:36 | 1.26       | 87.57      | 5.53           |
| 2017/02/15 14:51 | 1.26       | 88.96      | 5.62           |
| 2017/02/15 15:06 | 1.29       | 92.50      | 5.66           |
| 2017/02/15 15:21 | 1.26       | 88.96      | 5.62           |
| 2017/02/15 15:36 | 1.25       | 87.57      | 5.62           |
| 2017/02/15 15:51 | 1.25       | 87.57      | 5.62           |
| 2017/02/15 16:06 | 1.25       | 88.19      | 5.66           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/15 16:21 | 1.29       | 92.50      | 5.66           |
| 2017/02/15 16:36 | 1.29       | 90.14      | 5.51           |
| 2017/02/15 16:51 | 1.29       | 90.14      | 5.51           |
| 2017/02/15 17:06 | 1.29       | 91.18      | 5.58           |
| 2017/02/15 17:21 | 1.30       | 95.35      | 5.74           |
| 2017/02/15 17:36 | 1.30       | 95.35      | 5.74           |
| 2017/02/15 17:51 | 1.32       | 96.87      | 5.74           |
| 2017/02/15 18:06 | 1.32       | 97.71      | 5.79           |
| 2017/02/15 18:21 | 1.32       | 100.90     | 5.98           |
| 2017/02/15 18:36 | 1.33       | 104.58     | 6.11           |
| 2017/02/15 18:51 | 1.37       | 110.28     | 6.16           |
| 2017/02/15 19:06 | 1.37       | 113.82     | 6.36           |
| 2017/02/15 19:21 | 1.37       | 110.28     | 6.16           |
| 2017/02/15 19:36 | 1.39       | 115.97     | 6.39           |
| 2017/02/15 19:51 | 1.39       | 115.97     | 6.39           |
| 2017/02/15 20:06 | 1.41       | 121.94     | 6.53           |
| 2017/02/15 20:21 | 1.41       | 120.90     | 6.47           |
| 2017/02/15 20:36 | 1.44       | 124.31     | 6.47           |
| 2017/02/15 20:51 | 1.44       | 119.31     | 6.21           |
| 2017/02/15 21:06 | 1.46       | 126.04     | 6.47           |
| 2017/02/15 21:21 | 1.46       | 126.04     | 6.47           |
| 2017/02/15 21:36 | 1.46       | 126.04     | 6.47           |
| 2017/02/15 21:51 | 1.44       | 117.78     | 6.13           |
| 2017/02/15 22:06 | 1.41       | 114.58     | 6.13           |
| 2017/02/15 22:21 | 1.39       | 111.32     | 6.13           |
| 2017/02/15 22:36 | 1.37       | 109.72     | 6.13           |
| 2017/02/15 22:51 | 1.36       | 107.29     | 6.08           |
| 2017/02/15 23:06 | 1.36       | 106.18     | 6.02           |
| 2017/02/15 23:21 | 1.32       | 99.93      | 5.93           |
| 2017/02/15 23:36 | 1.22       | 83.40      | 5.53           |
| 2017/02/15 23:51 | 1.19       | 80.49      | 5.52           |
| 2017/02/16 00:06 | 1.19       | 80.49      | 5.52           |
| 2017/02/16 00:21 | 1.15       | 71.04      | 5.13           |
| 2017/02/16 00:36 | 1.15       | 68.61      | 4.95           |
| 2017/02/16 00:51 | 1.12       | 60.90      | 4.55           |
| 2017/02/16 01:06 | 1.12       | 60.90      | 4.55           |
| 2017/02/16 01:21 | 1.11       | 59.79      | 4.55           |
| 2017/02/16 01:36 | 1.08       | 54.79      | 4.33           |
| 2017/02/16 01:51 | 1.07       | 53.82      | 4.33           |
| 2017/02/16 02:06 | 1.07       | 53.82      | 4.33           |
| 2017/02/16 02:21 | 1.07       | 53.61      | 4.32           |
| 2017/02/16 02:36 | 1.07       | 53.61      | 4.32           |
| 2017/02/16 02:51 | 1.08       | 53.75      | 4.25           |
| 2017/02/16 03:06 | 1.08       | 52.36      | 4.14           |
| 2017/02/16 03:21 | 1.08       | 52.64      | 4.16           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 03:36 | 1.08       | 52.64      | 4.16           |
| 2017/02/16 03:51 | 1.08       | 52.64      | 4.16           |
| 2017/02/16 04:06 | 1.08       | 52.64      | 4.16           |
| 2017/02/16 04:21 | 1.08       | 52.64      | 4.16           |
| 2017/02/16 04:36 | 1.08       | 52.64      | 4.16           |
| 2017/02/16 04:51 | 1.08       | 52.64      | 4.16           |
| 2017/02/16 05:06 | 1.08       | 53.75      | 4.25           |
| 2017/02/16 05:21 | 1.08       | 53.75      | 4.25           |
| 2017/02/16 05:36 | 1.08       | 53.75      | 4.25           |
| 2017/02/16 05:51 | 1.08       | 55.21      | 4.36           |
| 2017/02/16 06:06 | 1.12       | 63.19      | 4.72           |
| 2017/02/16 06:21 | 1.16       | 72.01      | 5.10           |
| 2017/02/16 06:36 | 1.16       | 72.78      | 5.16           |
| 2017/02/16 06:51 | 1.19       | 77.92      | 5.34           |
| 2017/02/16 07:06 | 1.25       | 86.67      | 5.56           |
| 2017/02/16 07:21 | 1.44       | 118.75     | 6.18           |
| 2017/02/16 07:36 | 1.54       | 132.22     | 6.27           |
| 2017/02/16 07:51 | 1.57       | 145.28     | 6.71           |
| 2017/02/16 08:06 | 1.59       | 149.37     | 6.73           |
| 2017/02/16 08:21 | 1.59       | 149.37     | 6.73           |
| 2017/02/16 08:36 | 1.62       | 154.79     | 6.80           |
| 2017/02/16 08:51 | 1.62       | 157.50     | 6.92           |
| 2017/02/16 09:06 | 1.59       | 151.04     | 6.80           |
| 2017/02/16 09:21 | 1.59       | 149.03     | 6.71           |
| 2017/02/16 09:36 | 1.59       | 152.15     | 6.85           |
| 2017/02/16 09:51 | 1.55       | 135.28     | 6.33           |
| 2017/02/16 10:06 | 1.44       | 119.31     | 6.21           |
| 2017/02/16 10:21 | 1.40       | 114.37     | 6.21           |
| 2017/02/16 10:36 | 1.40       | 114.37     | 6.21           |
| 2017/02/16 10:51 | 1.39       | 112.78     | 6.21           |
| 2017/02/16 11:06 | 1.39       | 111.81     | 6.16           |
| 2017/02/16 11:21 | 1.39       | 111.81     | 6.16           |
| 2017/02/16 11:36 | 1.37       | 110.21     | 6.16           |
| 2017/02/16 11:51 | 1.37       | 110.21     | 6.16           |
| 2017/02/16 12:06 | 1.37       | 109.24     | 6.11           |
| 2017/02/16 12:21 | 1.36       | 104.44     | 5.92           |
| 2017/02/16 12:36 | 1.36       | 106.60     | 6.04           |
| 2017/02/16 12:51 | 1.34       | 105.00     | 6.04           |
| 2017/02/16 13:06 | 1.34       | 102.92     | 5.92           |
| 2017/02/16 13:21 | 1.34       | 104.10     | 5.99           |
| 2017/02/16 13:36 | 1.34       | 104.10     | 5.99           |
| 2017/02/16 13:51 | 1.32       | 98.12      | 5.82           |
| 2017/02/16 14:06 | 1.30       | 96.67      | 5.82           |
| 2017/02/16 14:21 | 1.29       | 94.65      | 5.79           |
| 2017/02/16 14:36 | 1.26       | 91.11      | 5.75           |

| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/16 14:51 | 1.26       | 91.11      | 5.75           |
| 2017/02/16 15:06 | 1.25       | 89.72      | 5.75           |
| 2017/02/16 15:21 | 1.25       | 89.17      | 5.72           |
| 2017/02/16 15:36 | 1.25       | 89.17      | 5.72           |
| 2017/02/16 15:51 | 1.25       | 86.25      | 5.53           |
| 2017/02/16 16:06 | 1.25       | 85.35      | 5.47           |
| 2017/02/16 16:21 | 1.25       | 85.35      | 5.47           |
| 2017/02/16 16:36 | 1.25       | 85.35      | 5.47           |
| 2017/02/16 16:51 | 1.25       | 85.35      | 5.47           |
| 2017/02/16 17:06 | 1.25       | 85.49      | 5.48           |
| 2017/02/16 17:21 | 1.26       | 87.64      | 5.53           |
| 2017/02/16 17:36 | 1.28       | 91.11      | 5.66           |
| 2017/02/16 17:51 | 1.28       | 91.11      | 5.66           |
| 2017/02/16 18:06 | 1.29       | 92.78      | 5.67           |
| 2017/02/16 18:21 | 1.28       | 91.32      | 5.67           |
| 2017/02/16 18:36 | 1.29       | 95.07      | 5.82           |
| 2017/02/16 18:51 | 1.29       | 95.07      | 5.82           |
| 2017/02/16 19:06 | 1.37       | 104.10     | 5.82           |
| 2017/02/16 19:21 | 1.37       | 109.44     | 6.12           |
| 2017/02/16 19:36 | 1.39       | 111.11     | 6.12           |
| 2017/02/16 19:51 | 1.41       | 117.22     | 6.27           |
| 2017/02/16 20:06 | 1.41       | 117.22     | 6.27           |
| 2017/02/16 20:21 | 1.41       | 117.22     | 6.27           |
| 2017/02/16 20:36 | 1.39       | 111.11     | 6.12           |
| 2017/02/16 20:51 | 1.41       | 114.31     | 6.12           |
| 2017/02/16 21:06 | 1.43       | 118.12     | 6.23           |
| 2017/02/16 21:21 | 1.43       | 118.12     | 6.23           |
| 2017/02/16 21:36 | 1.43       | 115.00     | 6.07           |
| 2017/02/16 21:51 | 1.43       | 115.00     | 6.07           |
| 2017/02/16 22:06 | 1.33       | 101.94     | 5.96           |
| 2017/02/16 22:21 | 1.28       | 89.31      | 5.55           |
| 2017/02/16 22:36 | 1.28       | 89.31      | 5.55           |
| 2017/02/16 22:51 | 1.26       | 87.78      | 5.54           |
| 2017/02/16 23:06 | 1.23       | 84.03      | 5.48           |
| 2017/02/16 23:21 | 1.23       | 85.00      | 5.54           |
| 2017/02/16 23:36 | 1.23       | 85.00      | 5.54           |
| 2017/02/16 23:51 | 1.23       | 85.00      | 5.54           |
| 2017/02/17 00:06 | 1.21       | 81.32      | 5.48           |
| 2017/02/17 00:21 | 1.14       | 64.17      | 4.71           |
| 2017/02/17 00:36 | 1.12       | 62.78      | 4.69           |
| 2017/02/17 00:51 | 1.12       | 62.71      | 4.69           |
| 2017/02/17 01:06 | 1.11       | 60.42      | 4.60           |
| 2017/02/17 01:21 | 1.08       | 52.71      | 4.16           |
| 2017/02/17 01:36 | 1.08       | 51.94      | 4.10           |
| 2017/02/17 01:51 | 1.08       | 51.94      | 4.10           |



| TimeStamp        | Level (in) | Flow (gpm) | Velocity (fps) |
|------------------|------------|------------|----------------|
| 2017/02/17 02:06 | 1.07       | 50.97      | 4.10           |
| 2017/02/17 02:21 | 1.07       | 49.24      | 3.96           |
| 2017/02/17 02:36 | 1.07       | 48.61      | 3.91           |
| 2017/02/17 02:51 | 1.07       | 47.64      | 3.83           |
| 2017/02/17 03:06 | 1.07       | 47.29      | 3.81           |
| 2017/02/17 03:21 | 1.07       | 47.22      | 3.80           |
| 2017/02/17 03:36 | 1.07       | 46.87      | 3.78           |
| 2017/02/17 03:51 | 1.11       | 47.01      | 3.58           |
| 2017/02/17 04:06 | 1.11       | 47.01      | 3.58           |
| 2017/02/17 04:21 | 1.11       | 47.01      | 3.58           |
| 2017/02/17 04:36 | 1.11       | 47.01      | 3.58           |
| 2017/02/17 04:51 | 1.11       | 48.06      | 3.66           |
| 2017/02/17 05:06 | 1.11       | 48.06      | 3.66           |
| 2017/02/17 05:21 | 1.11       | 48.06      | 3.66           |
| 2017/02/17 05:36 | 1.11       | 50.83      | 3.87           |
| 2017/02/17 05:51 | 1.11       | 50.83      | 3.87           |
| 2017/02/17 06:06 | 1.12       | 57.08      | 4.27           |
| 2017/02/17 06:21 | 1.12       | 63.19      | 4.72           |
| 2017/02/17 06:36 | 1.15       | 67.29      | 4.86           |
| 2017/02/17 06:51 | 1.18       | 71.67      | 4.99           |
| 2017/02/17 07:06 | 1.33       | 100.42     | 5.87           |
| 2017/02/17 07:21 | 1.40       | 114.37     | 6.21           |
| 2017/02/17 07:36 | 1.48       | 129.31     | 6.46           |
| 2017/02/17 07:51 | 1.50       | 133.75     | 6.59           |
| 2017/02/17 08:06 | 1.51       | 136.04     | 6.62           |
| 2017/02/17 08:21 | 1.51       | 135.56     | 6.59           |
| 2017/02/17 08:36 | 1.54       | 140.97     | 6.68           |
| 2017/02/17 08:51 | 1.54       | 140.97     | 6.68           |
| 2017/02/17 09:06 | 1.54       | 140.62     | 6.67           |
| 2017/02/17 09:21 | 1.54       | 140.62     | 6.67           |
| 2017/02/17 09:36 | 1.54       | 138.12     | 6.54           |
| 2017/02/17 09:51 | 1.50       | 132.08     | 6.51           |
| 2017/02/17 10:06 | 1.50       | 132.08     | 6.51           |
| 2017/02/17 10:21 | 1.50       | 132.08     | 6.51           |
| 2017/02/17 10:36 | 1.47       | 128.61     | 6.51           |
| 2017/02/17 10:51 | 1.47       | 128.61     | 6.51           |
| 2017/02/17 11:06 | 1.51       | 136.04     | 6.62           |

## Appendix C: Manhole Condition Reports





**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/16/2017          | Inspection Time:                                                                                                                                                                                                                                          | 11:17AM                                                                                                                       | MACP LEVEL -1    | 1             |
| Street Name              | 1ST ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0002       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>F</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Seal:              | <b>1</b>                                                                                                                                                                                                                                                  | 1) NONE 2) GASKET 3) SILICONE                                                                                                 |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     | NO CHIMNEY         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/16/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 3:18PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | 1ST ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0003       |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>F</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:                          | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>NA</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>NA</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments | <b>NO CHANNEL JUST A BENCH</b> |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material                       | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps                     | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/4/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 9:40AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HERMOSA AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0006       |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | CORNER OF 35TH ST AND HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/4/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:46AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | HERMOSA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0007 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON HERMOSA AVE ACROSS FROM 33RD ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>C</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>3</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/4/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 9:54AM      | MACP LEVEL -1        |
| Street Name                                  | HERMOSA AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0008 |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON HERMOSA ACROSS FROM LONGFELLOW |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>2</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>1</b>               | BROKEN AND CORRODED                                                                                                                                                                                                                                       |             |                      |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                      |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/4/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 10:23AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | HERMOSA AVE                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0009       |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON HERMOSA ACROSS FROM 30TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/4/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 10:28AM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                  | HERMOSA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0010 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON HERMOSA AVE ACROSS FROM 29TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Inspection Date:                             | 4/4/2017                                        | Inspection Time:                                                                                                                                                                                                                                          | 11:15AM                                                                                                                       | MACP LEVEL -1        |
| Street Name                                  | THE STRAND                                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #: MH-0011 |
| Survey Purpose                               | ROUTINE ASSESSMENT                              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A |
| Location Comments:                           | WALK WAY NEXT TO BEACH BETWEEN 35TH AND 34TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH  |
|                                              |                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                      |
| Location Code                                | <b>F</b>                                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                      |
| Inspection Status                            | <b>SI</b>                                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                      |
| Access Type:                                 | <b>AMH</b>                                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                      |
| Surface Type:                                | <b>2</b>                                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                      |
| Cover                                        | Type:                                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                      |
|                                              | Fit:                                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                      |
|                                              | Condition                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                      |
| Cover Adjustment Ring                        | <b>NA</b>                                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                      |
| Frame: Condition                             | <b>1</b>                                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                      |
| Chimney Condition                            | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Chimney O&M Comments                         |                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Cone: Condition                              | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Cone O&M Comment                             |                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Wall: Condition                              | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Wall O&M Comment                             |                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Bench: Condition                             | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Bench Deffect Comments                       |                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Channel Condition                            | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Channel Deffect Comments                     |                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Steps:                                       | Material                                        | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                      |
|                                              | # of Steps                                      | <b>4</b>                                                                                                                                                                                                                                                  | ONE STEP IS MISSING                                                                                                           |                      |
| General Comments                             |                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/4/2017                                           | Inspection Time:                                                                                                                                                                                                                                          | 11:27AM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                  | THE STRAND                                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0012 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | WALKWAY NEXT TO THE BEACH BETWEEN 34TH AND 33RD ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>F</b>                                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                         | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/4/2017                                                        |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:33AM          |               |
| Street Name                                  | THE STRAND                                                      |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                              |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON THE WALKWAY NEXT TO BEACH BETWEEN LONGFELLOW AVE AND 33RD ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0013       |
|                                              |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                                                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                        | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                      | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/4/2017                                                            |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:40AM          |               |
| Street Name                                  | THE STRAND                                                          |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                  |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON THE WALKWAY NEXT TO THE BEACH BETWEEN LONGFELLOW AVE AND 31ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0014       |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                          | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                           |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/4/2017                                                  | Inspection Time:                                                                                                                                                                                                                                          | 11:45AM     | MACP LEVEL -1         |
| Street Name              | THE STRAND                                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0015 |
| Survey Purpose           | ROUTINE ASSESSMENT                                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON THE WALKWAY NEXT TO THE BEACH BETWEEN 30TH AND 29TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                           |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                                                  | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/4/2017                                             | Inspection Time:                                                                                                                                                                                                                                          | 11:50AM     | MACP LEVEL -1         |
| Street Name                                  | THE STRAND                                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0016 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON THE WALKWAY NEXT TO THE BEACH 29TH ST AND 29TH CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>2</b>                                  | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 4/4/2017                                     | Inspection Time:                                                                                                                                                                                                                                          | 12:43PM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                   | 27TH ST                                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0021 |
| Survey Purpose                                | ROUTINE ASSESSMENT                           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | AT END OF 27TH ST WHERE IT MEETS HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>C</b>                                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>2</b>                                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                                        | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>1</b>                                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                                     | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                                   | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                              |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/4/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 12:47PM     | MACP LEVEL -1         |
| Street Name                                  | 27TH ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0022 |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF PALM DR AND 27TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             | FRAME IS SLIGHTLY OFFSET            |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 11:46AM     | MACP LEVEL -1         |
| Street Name              | PALM DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0023 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | PALM DR AND 28TH CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>            | I BELIEVE THERE METAL WITH A PLATIC COATING                                                                                                                                                                                                               |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |                  |                  |               |
|-----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                     |                                                                                                                                                                                                                                                           |                  |                  |               |
| Inspection Date:                              | 3/22/2017           |                                                                                                                                                                                                                                                           | Inspection Time: | 11:23AM          |               |
| Street Name                                   | PALM DR             |                                                                                                                                                                                                                                                           | Survey By:       | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT  |                                                                                                                                                                                                                                                           | MACP #           | U-1209-6134      |               |
| Location Comments:                            | PALM DR AND 29TH CT |                                                                                                                                                                                                                                                           |                  | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                     |                                                                                                                                                                                                                                                           |                  | Field Book Page: | MH-0024       |
|                                               |                     |                                                                                                                                                                                                                                                           |                  | CITY             | N/A           |
|                                               |                     |                                                                                                                                                                                                                                                           |                  |                  | HERMOSA BEACH |
|                                               |                     |                                                                                                                                                                                                                                                           |                  |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                  |                  |               |
| Location Code                                 | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                  |                  |               |
| Inspection Status                             | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                  |                  |               |
| Access Type:                                  | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                  |                  |               |
| Surface Type:                                 | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                  |                  |               |
| Cover Type:                                   | <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |                  |                  |               |
| Fit:                                          | <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |                  |                  |               |
| Condition                                     | <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |                  |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                  |                  |               |
| Frame: Condition                              | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                  |                  |               |
| Chimney Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Chimney O&M Comments                          |                     |                                                                                                                                                                                                                                                           |                  |                  |               |
| Cone: Condition                               | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Cone O&M Comment                              |                     |                                                                                                                                                                                                                                                           |                  |                  |               |
| Wall: Condition                               | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Wall O&M Comment                              |                     |                                                                                                                                                                                                                                                           |                  |                  |               |
| Bench: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Bench Deffect Comments                        |                     |                                                                                                                                                                                                                                                           |                  |                  |               |
| Channel Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Channel Deffect Comments                      |                     |                                                                                                                                                                                                                                                           |                  |                  |               |
| Steps: Material                               | <b>3</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |                  |                  |               |
| # of Steps                                    | <b>3</b>            | I BELIEVE ITS METAL WITH A PLATIC COATING                                                                                                                                                                                                                 |                  |                  |               |
| General Comments                              |                     |                                                                                                                                                                                                                                                           |                  |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 9:14AM      | MACP LEVEL -1         |
| Street Name              | PALM DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0025 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | PALM DR AND 30TH PL |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>            | I BELIEVE THER METAL WITH PLATIC COATING                                                                                                                                                                                                                  |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 8:32AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0026       |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | PALM DR AND 31ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material            | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps          | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/21/2017             | Inspection Time:                                                                                                                                                                                                                                          | 10:15AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0027       |
| Survey Purpose                               | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | 32ND PL MEETS PALM DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material              | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps            | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE IS METAL WITH PLASTIC COATING                                                                                       |                  |               |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                |                  |             |                       |
|--------------------|--------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 3/20/2017                      | Inspection Time: | 11:56AM     | MACP LEVEL -1         |
| Street Name        | PALM DR                        | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0028 |
| Survey Purpose     | ROUTINE ASSESSMENT             | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | WHERE 33RD PL AND PALM DR MEET |                  |             | CITY: HERMOSA BEACH   |
|                    |                                |                  |             |                       |

| OBSERVATION              | CODE TYPE                                     | CODE                                                                                                                                                                                                                                                      |
|--------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b>                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>                                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>                                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>                                      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |                                               |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |                                               |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                                               |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                                               |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>2</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments | SIDE CHANNEL FEEDING IS APPEARS TO BE CRACKED |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>3</b>                                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>3</b>                                      | STEPS I BELIEVE ARE METAL WITH PLASTIC COATING                                                                                                                                                                                                            |
| General Comments         |                                               |                                                                                                                                                                                                                                                           |



**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/2/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 11:59AM     | MACP LEVEL -1         |
| Street Name              | PALM DR                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0029 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE PALM DR AND 34TH PL MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                       | STEPS I BELIEVE ARE METAL WITH PLASTIC COATING                                                                                                                                                                                                            |             |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Inspection Date:                             | 3/20/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 12:05PM                                                                                                                       | MACP LEVEL -1        |
| Street Name                                  | PALM DR                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #: MH-0030 |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A |
| Location Comments:                           | WHERE PALM DR AND 35TH PL MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH  |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                      |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                      |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                      |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                      |
| Surface Type:                                | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                      |
| Cover                                        | Type:                          | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                      |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                      |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                      |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                      |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                      |
| Chimney Condition                            | <b>NA</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Steps:                                       | Material                       | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                      |
|                                              | # of Steps                     | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL COATED IN PLASTIC                                                                                       |                      |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                  |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/20/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 9:06AM      | MACP LEVEL -1         |
| Street Name              | MANHATTAN AVE                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0031 |
| Survey Purpose           | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE MANHATTAN AND 35TH PL MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>B</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>NA</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                         |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                  |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/20/2017                |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:12AM           |               |
| Street Name                                   | MANHATTAN AVE            |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT       |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | ON SIDEWALK NEXT TO HOME |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                          |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0032       |
|                                               |                          |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                    | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>NA</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>2</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                          | <b>ROOTS</b>                                                                                                                                                                                                                                              |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>2</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                          | <b>ROOTS</b>                                                                                                                                                                                                                                              |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>2</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                          | <b>DETERIORATING</b>                                                                                                                                                                                                                                      |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                 | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps               | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/20/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:22AM      | MACP LEVEL -1         |
| Street Name              | 34TH ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0033 |
| Survey Purpose           | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | CORNER OF 34TH ST AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>CRACKED, CONCRETE MISSING</b>    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>2</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         | <b>CRACKED</b>                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>2</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>DETERIORATING</b>                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                            |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 3/20/2017            | Inspection Time:                                                                                                                                                                                                                                          | 9:33AM      | MACP LEVEL -1         |
| Street Name                                  | 34TH ST              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0034 |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                      |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>5</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>NA</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>2</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       | <b>DETERIORATING</b> |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>2</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     | <b>DETERIORATING</b> |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/20/2017          | Inspection Time:                                                                                                                                                                                                                                          | 9:39                                                                                                                          |                  | MACP LEVEL -1 |
| Street Name              | HIGHLAND AVE       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0035       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>4</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/20/2017          | Inspection Time:                                                                                                                                                                                                                                          | 9:44AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HIGHLAND AVE       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0036       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>4</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/20/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:46AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | HIGHLAND AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0036A      |
| Survey Purpose                                | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | WHERE HIGHLAND AVE AND 34TH ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>NA</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>2</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        | <b>DETERIORATING SLIGHTLY</b>       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                          | <b>2</b>                                                                                                                                                                                                                                                  | <b>BOTTOM STEP CORRODED</b>                                                                                                   |                  |               |
| General Comments                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Inspection Date:                             | 3/20/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 10:02AM                                                                                                                       | MACP LEVEL -1        |
| Street Name                                  | 34TH ST                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #: MH-0037 |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A |
| Location Comments:                           | 34TH ST NEAR MORNINGSIDE DR.   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH  |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                      |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                      |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                      |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                      |
| Surface Type:                                | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                      |
| Cover                                        | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                      |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                      |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                      |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                      |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                      |
| Chimney Condition                            | <b>NA</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Channel Condition                            | <b>NA</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Channel Deffect Comments                     | <b>TOP OF LINE, NO CHANNEL</b> |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Steps:                                       | Material                       | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                      |
|                                              | # of Steps                     | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                      |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/20/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 9:51AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HIGHLAND AVE              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0038       |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | HIGHLAND AVE NEAR 33RD ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 3/20/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 12:12PM     | MACP LEVEL -1         |
| Street Name                                  | 34TH PL                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0039 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | 34TH PL AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>2</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       | <b>DETERIORATING</b>      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>2</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     | <b>DETERIORATING</b>      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                  |                  |             |                       |
|--------------------|----------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 3/20/2017                        | Inspection Time: | 9:54AM      | MACP LEVEL -1         |
| Street Name        | 34TH PL                          | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0040 |
| Survey Purpose     | ROUTINE ASSESSMENT               | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | WHERE 34TH PL MEETS HIGHLAND AVE |                  |             | CITY: HERMOSA BEACH   |
|                    |                                  |                  |             |                       |

| OBSERVATION              | CODE TYPE                      | CODE                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>NA</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>NA</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments | <b>NO CHANNEL, TOP OF LINE</b> |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>                       |                                                                                                                                                                                                                                                           |
| General Comments         |                                |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/20/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 11:52                                                                                                                         |                  | MACP LEVEL -1 |
| Street Name                                   | 33RD PL                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0041       |
| Survey Purpose                                | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | 33RD PL AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>NA</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>2</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                           | CRACKS                                                                                                                                                                                                                                                    |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>2</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        | DETERIORATING             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>2</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      | DETERIORATING             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                          |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/20/2017                | Inspection Time:                                                                                                                                                                                                                                          | 11:47AM     | MACP LEVEL -1         |
| Street Name              | 33RD PL                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0042 |
| Survey Purpose           | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | HIGHLAND AVE AND 33RD PL |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                          |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                          |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/21/2017                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 10:04AM          |               |
| Street Name                                  |                           |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | 32ND PL AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0043       |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>NA</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>2</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             | <b>CRACKED</b>            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 3/21/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 9:52AM      | MACP LEVEL -1         |
| Street Name                                  | 32ND PL                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0044 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | 32ND PL AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>NA</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                             |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/21/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 9:35AM      | MACP LEVEL -1         |
| Street Name              | 32ND PL                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0045 |
| Survey Purpose           | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                             |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                             |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                             |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>ROOTS AND BRICK HOLE</b> |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                             |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                             |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                             |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                    |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                             |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                           |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 8:08AM      | MACP LEVEL -1         |
| Street Name              | MANHATTAN AVE             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0047 |
| Survey Purpose           | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | 31ST PL AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                           |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>B</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 7:59AM      | MACP LEVEL -1        |
| Street Name                                  | 31ST PL             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0048 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/22/2017                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:05AM           |               |
| Street Name                                  | 30TH PL                   |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | 30TH PL AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0049       |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>NA</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/22/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 8:58AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MANHATTAN AVE             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0050       |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | 30TH PL AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>NA</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED STEP                                                                                                                 |                  |               |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 3/22/2017          | Inspection Time:                                                                                                                                                                                                                                          | 8:47AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 30TH PL            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0051 |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 3/22/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 11:17AM     | MACP LEVEL -1         |
| Street Name                                   | 29TH CT                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0052 |
| Survey Purpose                                | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | 29TH CT AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                  | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>10</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>NA</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b>       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                           |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 11:11AM     | MACP LEVEL -1        |
| Street Name                                  | 29TH CT             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0053 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     | <b>NO CHANNEL</b>   |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/22/2017                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:39AM          |               |
| Street Name                                  | 28TH CT                   |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | 28TH CT AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0054       |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>NA</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 1:35PM      | MACP LEVEL -1         |
| Street Name              | 28TH CT             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0055 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>1</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                          |                  |             |                       |
|--------------------|------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/3/2017                                 | Inspection Time: | 9:01AM      | MACP LEVEL -1         |
| Street Name        | 33RD ST                                  | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0060 |
| Survey Purpose     | ROUTINE ASSESSMENT                       | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | INTERSECTION OF 33RD ST AND INGLESIDE DR |                  |             | CITY: HERMOSA BEACH   |
|                    |                                          |                  |             |                       |

| OBSERVATION              | CODE TYPE                                                                        | CODE                                                                                                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>                                                                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>                                                                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b>                                                                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>                                                                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>                                                                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>                                                                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>                                                                         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>                                                                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>                                                                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>                                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |                                                                                  |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>                                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |                                                                                  |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>                                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                                                                                  |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>                                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                                                                                  |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>                                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |                                                                                  |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>                                                                         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>1</b>                                                                         |                                                                                                                                                                                                                                                           |
| General Comments         | <b>MH IS LINED UP WITH MAP BUT MH LID SAYS MANHATTAN BEACH NOT HERMOSA BEACH</b> |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                                  |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 4/3/2017                                         | Inspection Time:                                                                                                                                                                                                                                          | 8:53AM      | MACP LEVEL -1         |
| Street Name                                   | 33RD ST                                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0061 |
| Survey Purpose                                | ROUTINE ASSESSMENT                               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | NEXT TO DRIVEWAY AND WALK WAY ON PRIVAT PROPERTY |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                                                  |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                                 | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>Y</b>                                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                  | <b>AMH</b>                                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>4</b>                                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>10</b>                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>                                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>                               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>4</b>                                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>NA</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          | <b>NO CHIMNEY</b>                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>                               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b>                              |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                                                  |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/20/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:17PM      | MACP LEVEL -1         |
| Street Name              | 33RD ST            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0062 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    | MISSING BRICK                                                                                                                                                                                                                                             |             |                       |
| Wall: Condition          | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    | MISSING BRICK                                                                                                                                                                                                                                             |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/20/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:14PM      | MACP LEVEL -1         |
| Street Name              | VISTA DR           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0063 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>NO CHANNEL</b>  |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                 |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/21/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 8:30AM      | MACP LEVEL -1         |
| Street Name              | LONGFELLOW AVE                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0070 |
| Survey Purpose           | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | LONGFELLOW AVE AND INGLESIDE DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>B</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                        | POSSIBLY METAL COATED WITH PLATIC                                                                                                                                                                                                                         |             |                       |
| General Comments         |                                 |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/21/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 1:20PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LONGFELLOW AVE                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0071       |
| Survey Purpose                               | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | CORNER OF LONGFELLOW AVE AND INGLESIDE DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>NA</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                           | ROOTS                                                                                                                                                                                                                                                     |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>2</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                           | ROOTS                                                                                                                                                                                                                                                     |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 3/21/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 1:05PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                   | LONGFELLOW AVE                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0072 |
| Survey Purpose                                | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | CORNER OF LONGFELLOW AVE AND VALLEY DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>B</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                                  | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>NA</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>2</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                        | CRACK                                                                                                                                                                                                                                                     |                                                                                                                               |                       |
| Wall: Condition                               | <b>2</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                        | CRACK                                                                                                                                                                                                                                                     |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                               | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                             | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                 |                  |             |                       |
|--------------------|---------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 3/21/2017                       | Inspection Time: | 12:53AM     | MACP LEVEL -1         |
| Street Name        | VALLEY DR                       | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0073 |
| Survey Purpose     | ROUTINE ASSESSMENT              | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | CORNER OF VALLEY DR AND 31ST ST |                  |             | CITY: HERMOSA BEACH   |
|                    |                                 |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>NA</b>  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        |            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>1</b>   | <b>STEPS CORRODED</b>                                                                                                                                                                                                                                     |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:49AM      | MACP LEVEL -1         |
| Street Name              | BOUNDARY PL                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0074 |
| Survey Purpose           | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | BOUNDARY PL JUST BEFORE ARDMORE AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>H</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>4</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                            | CORRODED 1 MISSING                                                                                                                                                                                                                                        |             |                       |
| General Comments         |                                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/24/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:33AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BOUNDARY PL                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0075       |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF THE STREET ON BOUNDARY PL |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>H</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                          | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017           | Inspection Time:                                                                                                                                                                                                                                          | 9:20AM      | MACP LEVEL -1         |
| Street Name              | BOUNDARY PL         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0076 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON BOUNDARY PL      |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>H</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>2</b> | CORRODED 1 MISSING                                                                                                                                                                                                                                        |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                               |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 9:10AM      | MACP LEVEL -1         |
| Street Name              | BOUNDARY PL                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0077 |
| Survey Purpose           | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON BOUNDARY PL JUST BELOW PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                               |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>H</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                               |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                               |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                               |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                               |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                               |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>3</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                               |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/24/2017                                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:43AM           |               |
| Street Name                                  | LONGFELLOW AVE                            |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | CORNER OF LONG FELLOW AVE AND ARDMORE AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0078       |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED MISSING                                                                                                              |                  |               |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/24/2017                     |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:53AM           |               |
| Street Name                                  | LONGFELLOW AVE                |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT            |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | IN THE GRASS NEXT TO SIDEWALK |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0079       |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED MISSING                                                                                                              |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                                                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                                                                          | Inspection Time:                                                                                                                                                                                                                                          | 11:22AM     | MACP LEVEL -1         |
| Street Name              | ALLEY                                                                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0081 |
| Survey Purpose           | ROUTINE ASSESSMENT                                                                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ALLEY BETWEEN LONGFELLOW AVE AND 3TH ST                                            |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>H</b>                                                                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                                                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                                                                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                                                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                                                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                                                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                                                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>1</b>                                                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                                                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                                                           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                                                                           | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         | <b>FRAME HAS BEEN RAISED WITH CONCRETE RINGS AND LOOKS LIKE A ADJUSTMENT RING.</b> |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
|-----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                              | 3/24/2017                                   | Inspection Time:                                                                                                                                                                                                                                          | 11:29AM                                                                                                                       | MACP LEVEL -1          |
| Street Name                                   | ALLEY                                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0081A |
| Survey Purpose                                | ROUTINE ASSESSMENT                          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                            | IN ALLEY BETWEEN LONGFELLOW AVE AND 30TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                               |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                                 | <b>H</b>                                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                             | <b>SI</b>                                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                        |
| Access Type:                                  | <b>AMH</b>                                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                                 | <b>1</b>                                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                         | Type:                                       | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                               | Fit:                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                               | Condition                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                         | <b>NA</b>                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                              | <b>1</b>                                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                          |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                               | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                               | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                              | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                        |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                      |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                        | Material                                    | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                               | # of Steps                                  | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                        |
| General Comments                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                                                      | Inspection Time:                                                                                                                                                                                                                                          | 10:17AM     | MACP LEVEL -1         |
| Street Name              | ALLEY                                                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0082 |
| Survey Purpose           | ROUTINE ASSESSMENT                                             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ALLEY BETWEEN LONGFELLOW AVE AND 30TH ST AND ABOVE TENNYSON PL |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>H</b>                                                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                                                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>5</b>                                                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>ROOTS</b>                                                   |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                                                       | <b>CORRODED 1 MISSING</b>                                                                                                                                                                                                                                 |             |                       |
| General Comments         | <b>SURFACE HAS BOTH CONCRETE AND ASPHALT</b>                   |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 3/24/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 10:08AM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                   | TENNYSON PL                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-082A |
| Survey Purpose                                | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | ON TENNYSON PL BETWEEN 30TH AND LONGFELLOW |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>C</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>1</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                                   | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                                 | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                     |                       |
| General Comments                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/24/2017                                                     |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:10AM          |               |
| Street Name                                   | PACIFIC COAST HWY                                             |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT                                            |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | NEAR SIDEWALK ON PCH AND AN ALLEY BETWEEN 30TH AND LONGFELLOW |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0083       |
|                                               |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                               |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                                              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>A</b>                                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>5</b>                                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          | <b>CORRODED PIPE RUNNING THROUGH IT</b>                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                                    | <b>5</b>                                                                                                                                                                                                                                                  | <b>CORRODED 1 MISSING</b>                                                                                                     |                  |               |
| General Comments                              | <b>SURFACE IS BOTH CONCRETE AND ASPHALT</b>                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/24/2017                        |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 8:44AM           |               |
| Street Name                                  | PACIFIC COAST HWY                |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT               |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | CORNER OF PCH AND LONGFELLOW     |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0084       |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>A</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>BROKEN CONCRETE AND BRICK</b> |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>3</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                                           | Inspection Time:                                                                                                                                                                                                                                          | 8:33AM      | MACP LEVEL -1         |
| Street Name              | LONGFELLOW AVE                                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0085 |
| Survey Purpose           | ROUTINE ASSESSMENT                                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | NEXT TO SIDEWALK IN A GRASS PATCH ON LONGFELLOW AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>                                    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>F</b>                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>                                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>3</b>                                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>NA</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>NO CHANNEL</b>                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>NA</b>                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>0</b>                                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                                     |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/24/2017                                            |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 8:05AM           |               |
| Street Name                                   | LONGFELLOW AVE                                       |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT                                   |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | NEXT TO DRIVEWAY NEAR SIDEWALK OFF OF LONGFELLOW AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0086       |
|                                               |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>                                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>4</b>                                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                                | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>2</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        | LOOKS LIKE EXTRA CONCRETE FELL ON BENCH              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                           | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                         |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/21/2017                               | Inspection Time:                                                                                                                                                                                                                                          | 9:22AM      | MACP LEVEL -1         |
| Street Name              | LONGFELLOW AVE                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0088 |
| Survey Purpose           | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | CORNER OF LONGFELLOW AND MORNINGSIDE DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                         | <b>CRACKS</b>                                                                                                                                                                                                                                             |             |                       |
| Wall: Condition          | <b>2</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                         | <b>CRACKS</b>                                                                                                                                                                                                                                             |             |                       |
| Bench: Condition         | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                                |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                         |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 3/20/2017           | Inspection Time:                                                                                                                                                                                                                                          | 12:20PM     | MACP LEVEL -1        |
| Street Name                                  | LONGFELLOW AVE      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0089 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>F</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>2</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                     | CRACKED                                                                                                                                                                                                                                                   |             |                      |
| Wall: Condition                              | <b>2</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                     | CRACKED                                                                                                                                                                                                                                                   |             |                      |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                     | NO CHANNEL                                                                                                                                                                                                                                                |             |                      |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                      |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/20/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 12:32PM     | MACP LEVEL -1         |
| Street Name              | MORNINGSIDE DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0090 |
| Survey Purpose           | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | MORNINGSIDE DR AND 33RD PL |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>2</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   | <b>DETERIORATING</b>       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>2</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>DETERIORATING</b>       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                            |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Inspection Date:         | 3/20/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 12:25PM                                                                                                                       | MACP LEVEL -1         |
| Street Name              | 33RD PL                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0091 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:       | 33RD PL AND HIGHLAND AVE       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                          |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:            | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                    | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                          | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                          | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition        | <b>NA</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments | <b>NO CHANNEL, TOP OF LINE</b> |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                   | Material                       | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                          | # of Steps                     | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/23/2017                                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 10:44am          |               |
| Street Name                                   | 25TH ST                                   |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT                        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | INTERSECTION OF 25TH ST AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0101       |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                  | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                  |                  |               |
| General Comments                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                     |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 5/2/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 12:15PM     | MACP LEVEL -1          |
| Street Name              | 25TH ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0101A |
| Survey Purpose           | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | INTERSECTION OF 25TH ST AND PALM DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>5</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>3</b>                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>3</b>                            | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                                                                                                                                                  |             |                        |
| General Comments         |                                     |                                                                                                                                                                                                                                                           |             |                        |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                        |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 3:41PM      | MACP LEVEL -1         |
| Street Name              | 25TH ST                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0103 |
| Survey Purpose           | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF MYRTLE AVE AND 25TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                               | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                                                                                                                                                  |             |                       |
| General Comments         |                                        |                                                                                                                                                                                                                                                           |             |                       |



**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                          |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/23/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 11:22AM     | MACP LEVEL -1         |
| Street Name              | 25TH ST                                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0104 |
| Survey Purpose           | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF SILVERSTRAND AND 25TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>2</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     | <b>ROOTS</b>                             |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>ROOTS</b>                             |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>2</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         | <b>ROOTS</b>                             |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                          |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/23/2017          | Inspection Time:                                                                                                                                                                                                                                          | 11:35AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name              | 25TH ST            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0105       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 3:53PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | MYRTLE AVE          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0108       |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>2</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     | <b>SMALL CRACKS</b> |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps          | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/22/2017          | Inspection Time:                                                                                                                                                                                                                                          | 3:46PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | MYRTLE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0108A      |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017          | Inspection Time:                                                                                                                                                                                                                                          | 3:28PM      | MACP LEVEL -1         |
| Street Name              | MYRTLE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0109 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | NEXT TO SCHOOL     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                        |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017              | Inspection Time:                                                                                                                                                                                                                                          | 3:16PM      | MACP LEVEL -1         |
| Street Name              | MYRTLE AVE             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0111 |
| Survey Purpose           | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | MYRTLE AVE AND 26TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                        |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>2</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     | <b>CRACKS</b>          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>CRACKS</b>          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>2</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         | <b>CRACKS</b>          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>NA</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>NO CHANNEL</b>      |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>               |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                        |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                    |                  |             |                  |               |
|--------------------|--------------------|------------------|-------------|------------------|---------------|
| Inspection Date:   | 3/22/2017          | Inspection Time: | 4:01PM      |                  | MACP LEVEL -1 |
| Street Name        | OZONE CT           | Survey By:       | A.SOUZA     | MH/ACCESS #.:    | MH-0112       |
| Survey Purpose     | ROUTINE ASSESSMENT | MACP #           | U-1209-6134 | Field Book Page: | N/A           |
| Location Comments: |                    |                  |             | CITY             | HERMOSA BEACH |
|                    |                    |                  |             |                  |               |
|                    |                    |                  |             |                  |               |

| OBSERVATION              | CODE TYPE                     | CODE                                                                                                                                                                                                                                                      |
|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>                      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>2</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     | <b>LIGHT CRACKS</b>           |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |                               |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                               |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                               |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |                               |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>                      |                                                                                                                                                                                                                                                           |
| General Comments         | <b>DROP CONNECTIONS IN MH</b> |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                       |               |
|--------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|--|-----------------------|---------------|
| Inspection Date:         | 3/22/2017            |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:06PM      |  | MACP LEVEL -1         |               |
| Street Name              | OZONE CT             |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA     |  | MH/ACCESS #.: MH-0113 |               |
| Survey Purpose           | ROUTINE ASSESSMENT   |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134 |  | Field Book Page: N/A  |               |
| Location Comments:       | OZONE CT AND 27TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  | CITY                  | HERMOSA BEACH |
|                          |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                       |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |             |  |                       |               |
| Location Code            | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |             |  |                       |               |
| Inspection Status        | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |             |  |                       |               |
| Access Type:             | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |             |  |                       |               |
| Surface Type:            | <b>1</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |             |  |                       |               |
| Cover                    | Type:                | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |             |  |                       |               |
|                          | Fit:                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |             |  |                       |               |
|                          | Condition            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |             |  |                       |               |
| Cover Adjustment Ring    | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |             |  |                       |               |
| Frame: Condition         | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |             |  |                       |               |
| Chimney Condition        | <b>NA</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                       |               |
| Chimney O&M Comments     |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                       |               |
| Cone: Condition          | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                       |               |
| Cone O&M Comment         |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                       |               |
| Wall: Condition          | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                       |               |
| Wall O&M Comment         |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                       |               |
| Bench: Condition         | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                       |               |
| Bench Deffect Comments   |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                       |               |
| Channel Condition        | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                       |               |
| Channel Deffect Comments |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                       |               |
| Steps:                   | Material             | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |             |  |                       |               |
|                          | # of Steps           | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |             |  |                       |               |
| General Comments         |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                       |               |



**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/22/2017          | Inspection Time:                                                                                                                                                                                                                                          | 2:15PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | 27TH CT            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0114       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED AND PART OF IT MISSING                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/22/2017          |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:00PM           |               |
| Street Name                                  | OZONE CT           |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-015        |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/2/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 10:47AM     | MACP LEVEL -1         |
| Street Name                                  | 16TH ST                                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0121 |
| Survey Purpose                               | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF MANHATTAN AVE AND 16TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                             | 5/2/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 10:35AM                                                                                                                       | MACP LEVEL -1          |
| Street Name                                  | MANHATTAN AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0121A |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                           | ON MANHATTAN AVE JUST BELOW 16TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                        |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                                | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                        | Type:                               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                              | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                              | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                            | <b>3</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                       | Material                            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                              | # of Steps                          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                        |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 1:29PM      | MACP LEVEL -1         |
| Street Name                                  | 16TH ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0122 |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF 16TH AND BAYVIEW DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>5</b>                 | CORRODED AND 1 MISSING                                                                                                                                                                                                                                    |             |                       |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 2:20PM      | MACP LEVEL -1         |
| Street Name                                  | 16TH ST                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0123 |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF 16TH AND LOMA DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                  |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>2</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       | <b>ERODED</b>                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>              |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/10/2017                                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:37PM           |               |
| Street Name                                   | 16TH ST                                   |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT                        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | INTERSECTION OF 16TH ST AND MONTEREY BLVD |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0123A      |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>2</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        | <b>ERODED</b>                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>2</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      | <b>ERODED</b>                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              | <b>CHIMNEY AND CONE ARE OFFSET</b>        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 2:26PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0124       |
| Survey Purpose                               | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | END OF LOMA DR ABOVE 16TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                        | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                     | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                   | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 2:33PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0125       |
| Survey Purpose                               | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON LOMA DR JUST ABOVE OAK ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                        | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                     | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                   | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/10/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 12:01PM     | MACP LEVEL -1        |
| Street Name                                  | BAYVIEW DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0126 |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON BAYVIEW DR JUST BELOW 19TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                  |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps                       |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 1:21PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BAYVIEW DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0126A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON BAYVIEW DR BETWEEN 19TH AND 16TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                  | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                               | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                             | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                     |                  |               |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 11:55AM     | MACP LEVEL -1         |
| Street Name                                  | 19TH ST                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0127 |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF 19TH ST AND BAYVIEW DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                        |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>3</b>                    | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/5/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 10:42AM     | MACP LEVEL -1         |
| Street Name                                  | BAYVIEW DR                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0128 |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | WHERE BAYVIEW DR AND CIRCLE DR MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:                                  | <b>5</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                                         | <b>3</b>                            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                                    | <b>1</b>                            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material                              | <b>2</b>                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps                                   | <b>1</b>                            |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/10/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 11:59AM     | MACP LEVEL -1        |
| Street Name                                  | 19TH ST                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0129 |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | INTERSECTION OF BAYVIEW DR AND 19TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                        |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>F</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>                    |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 11:21AM     | MACP LEVEL -1         |
| Street Name                                  | 19TH ST                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0130 |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF 19TH AND LOMA DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                  |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>              |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/10/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 11:28AM     | MACP LEVEL -1        |
| Street Name                                  | LOMA DR                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0131 |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON LOMA DR FIRST MH ABOVE 19TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>                    | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>               |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                      |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                         |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/10/2017                               | Inspection Time:                                                                                                                                                                                                                                          | 11:33AM     | MACP LEVEL -1          |
| Street Name                                  | LOMA DR                                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0132X |
| Survey Purpose                               | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON LOMA DR BETWEEN 19TH ST AND PARK AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                         |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                        | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>Y</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>2</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:                                  | <b>5</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                                         | <b>1</b>                                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                                    | <b>1</b>                                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material                              | <b>3</b>                                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps                                   | <b>4</b>                                | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                                                                                                                                                  |             |                        |
| General Comments                             | MH IS LOCATED ON DRIVEWAY               |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                | Inspection Time:                                                                                                                                                                                                                                          | 11:18AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-133X       |
| Survey Purpose                               | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON LOMA DR BELOW 19TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                    | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                 | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps               | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/11/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 9:36AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | BAYVIEW DR                                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0134 |
| Survey Purpose                               | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON BAYVIEW DR BETWEEN 16TH ST AND PIER AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CANT OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                      | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                   | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                 | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA AVE |                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM          |                            |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                           | 5/31/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 3:16AM      | MACP LEVEL -1         |
| Street Name                                | PIER AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0141 |
| Survey Purpose                             | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                         | PIER AVE AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                            |                            |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                         | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                              | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                          | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                               | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                              | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                      | Type: <b>5</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                            | Fit: <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                            | Condition <b>1</b>         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                      | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                           | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                           |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                           |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                           | <b>2</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                     | <b>ERODED</b>              |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                   |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                     | Material <b>2</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                            | # of Steps <b>1</b>        | <b>CORROSION</b>                                                                                                                                                                                                                                          |             |                       |
| General Comments                           |                            |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 3:22AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | MANHATTAN AVE      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0141A      |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/17/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 8:28AM      | MACP LEVEL -1         |
| Street Name              | PIER AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0142 |
| Survey Purpose           | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON PIER AVE AND BAYVIEW DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                            |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                             | 4/17/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 8:31AM                                                                                                                        | MACP LEVEL -1          |
| Street Name                                  | PIER AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0142A |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                           | ON PIER AVE AND BAYVIEW DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                        |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                                | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                        | Type:                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                              | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                              | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                       | Material                   | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                              | # of Steps                 | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                        |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017                                         | Inspection Time:                                                                                                                                                                                                                                          | 8:23AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BAYVIEW DR                                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0143X      |
| Survey Purpose                               | ROUTINE ASSESSMENT                                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF BAYVIEW DR BETWEEN PIER AVE AND 10TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                             | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                          | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                        | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                  |                  |               |
| General Comments                             |                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/25/2017          | Inspection Time:                                                                                                                                                                                                                                          | 6:45PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MONTEREY BLVD      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0152       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>7</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH A PLATIC COATING                                                                                   |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                          |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/30/2017                | Inspection Time:                                                                                                                                                                                                                                          | 4:08AM      | MACP LEVEL -1         |
| Street Name                                  | MONTEREY BLVD            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0153 |
| Survey Purpose                               | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | MONTEREY BLVD AND 6TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                          |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>6</b>      | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments                             | MH IS LINED              |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                              |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                              |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 5/30/2017                                    | Inspection Time:                                                                                                                                                                                                                                          | 4:11AM      | MACP LEVEL -1          |
| Street Name                                  | MONTEREY BLVD                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0153B |
| Survey Purpose                               | ROUTINE ASSESSMENT                           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | MONTEREY BLVD AND 6TH                        |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                              |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                             | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>                              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                              |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                              |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                              |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                              |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                              |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>3</b>                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>5</b>                          |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             | I BELIEVE THERE METAL WITH A PLASTIC COATING |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|--|------|------------------|----------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Inspection Date:                             | 5/31/2017          |                                                                                                                                                                                                                                                           |                                                                                                                               | Inspection Time: | 3:46AM      |  |      | MACP LEVEL -1    |          |
| Street Name                                  | MONTEREY BLVD      |                                                                                                                                                                                                                                                           |                                                                                                                               | Survey By:       | A.SOUZA     |  |      | MH/ACCESS #:     | MH-0153C |
| Survey Purpose                               | ROUTINE ASSESSMENT |                                                                                                                                                                                                                                                           |                                                                                                                               | MACP #           | U-1209-6134 |  |      | Field Book Page: | N/A      |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  | CITY | HERMOSA BEACH    |          |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |             |  |      |                  |          |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |             |  |      |                  |          |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |             |  |      |                  |          |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |             |  |      |                  |          |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |             |  |      |                  |          |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |             |  |      |                  |          |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |             |  |      |                  |          |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |             |  |      |                  |          |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |             |  |      |                  |          |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |             |  |      |                  |          |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Steps:                                       | Material           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |             |  |      |                  |          |
|                                              | # of Steps         | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC                                                                                            |                  |             |  |      |                  |          |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 4:03AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MONTEREY BLVD      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0154       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | AND 8TH ST         |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 3:52AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MONTEREY BLVD      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0154A      |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>6</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                  |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017           | Inspection Time:                                                                                                                                                                                                                                          | 3:57AM      | MACP LEVEL -1         |
| Street Name              | MONTEREY BLVD       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0155 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>7</b> | I BELIEVE THERE METAL WITH PLASTIC                                                                                                                                                                                                                        |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 4:05AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MONTEREY BLVD      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0156       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>6</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/12/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 8:11AM      | MACP LEVEL -1         |
| Street Name                                  | LOMA DR                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0157 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF LOMA AND SUNSET DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>5</b>                | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                                                                                                                                              |             |                       |
| General Comments                             | MH IS LINED                        |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 8:16AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0158       |
| Survey Purpose                               | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF LOMA DR BETWEEN 8TH AND 6TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                    | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                 | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                               | <b>8</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             | MH IS LINED                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/12/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 7:17AM      | MACP LEVEL -1         |
| Street Name                                  | LOMA DR                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0159 |
| Survey Purpose                               | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON LOMA DR JUST ABOVE 8TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                              |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>4</b>          | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments                             | MH IS LINED                  |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 7:46AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0160       |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON LOMA DR JUST BELOW 115TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                    |                  |               |
| General Comments                             | MH IS LINED                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 7:50AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0160A      |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | LOMA DR JUST BELOW 11TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                   | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                 | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             | MH IS LINED                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 7:56AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0160B      |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON LOMA DR JUST BELOW 10TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             | MH IS LINED                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 8:06AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0161       |
| Survey Purpose                               | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON LOMA DR JUST BELOW 6TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                        | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                     | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                   | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             | MH IS LINED                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:23AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0163B      |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON PALM BETWEEN 21ST ST AND 19TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                            | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                          | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/1/2017                                   | Inspection Time:                                                                                                                                                                                                                                          | 1:21PM      | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0170 |
| Survey Purpose           | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF HERMOSA AVE AND HERONDO ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>A</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                                   | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                            |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                                                       | Inspection Time:                                                                                                                                                                                                                                          | 12:40PM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | HERONDO ST                                                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0172       |
| Survey Purpose                               | ROUTINE ASSESSMENT                                              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON HERONDO ST ON SIDEWALK JUST BELOW PALM DR BEFORE HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                                                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                           | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                        | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                      | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/12/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 12:44PM     | MACP LEVEL -1        |
| Street Name                                  | PALM DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0173 |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | WHERE PALM DR AND 1ST CT MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                               |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                      |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>4</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>           |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/12/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 12:56PM     | MACP LEVEL -1         |
| Street Name                                  | 1ST CT                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0174 |
| Survey Purpose                               | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 1ST CT NEAR MONTEREY BLVD |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                              |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>          |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 1:101PM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0175       |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON PALM DR JUST BEFORE 1ST ST  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                | <b>ROOTS</b>                                                                                                                                                                                                                                              |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             | <b>PIPE RUNNING THROUGH MH</b> |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/12/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 12:34PM     | MACP LEVEL -1         |
| Street Name                                  | HERONDO ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0176 |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON HERONDO ST JUST AFTER MONTEREY BLVD |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                        |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>3</b>                    | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/25/2017          | Inspection Time:                                                                                                                                                                                                                                          | 6:18PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | ARDMORE AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0201       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017                    |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:03PM           |               |
| Street Name                                  | 1ST ST                       |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT           |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 1ST ST BEFORE ARDMORE AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0202       |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                        | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                     | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                   | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED 1 MISSING                                                                                                            |                  |               |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017             | Inspection Time:                                                                                                                                                                                                                                          | 12:59PM     | MACP LEVEL -1         |
| Street Name              | 1ST ST                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0203 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON 1ST ST WEST OF PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                       |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>              |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/17/2017                      |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 10:22AM          |               |
| Street Name                                  | PACIFIC COAST HIGHWAY          |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT             |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | INTERSECTION OF PCH AND 1ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0204       |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>A</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                | CRACKS                                                                                                                                                                                                                                                    |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED AND MISSING                                                                                                          |                  |               |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 12:54PM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | 1ST ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0204A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 1ST ST THE FIRST MH WEST OF PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                           |                  |             |                       |
|--------------------|---------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/17/2017                 | Inspection Time: | 10:29AM     | MACP LEVEL -1         |
| Street Name        | PACIFIC COAST HIGHWAY     | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0205 |
| Survey Purpose     | ROUTINE ASSESSMENT        | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | WHERE PCH AND 1ST ST MEET |                  |             | CITY: HERMOSA BEACH   |
|                    |                           |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>A</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>3</b>   | <b>CORRODED AND MISSING</b>                                                                                                                                                                                                                               |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                       |                  |             |                       |
|--------------------|-----------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/30/2017             | Inspection Time: | 2:53AM      | MACP LEVEL -1         |
| Street Name        | PACIFIC COAST HIGHWAY | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0206 |
| Survey Purpose     | ROUTINE ASSESSMENT    | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: |                       |                  |             | CITY: HERMOSA BEACH   |
|                    |                       |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>3</b>   | <b>CORROSION MISSING</b>                                                                                                                                                                                                                                  |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/13/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 11:08AM     | MACP LEVEL -1         |
| Street Name                                  | 2ND ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0207 |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 2ND ST FIRST MH EAST OF PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>3</b>            | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 11:02AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | 2ND ST                                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0208       |
| Survey Purpose                               | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 2ND ST IT'S THE SECOND MH EAST OF PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                    | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                 | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                               | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 10:55AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | 2N ST                                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0209       |
| Survey Purpose                               | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF 2ND ST BETWEEN PROSPECT AND PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 10:52AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | 2ND ST                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0210       |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | 3RD MH GOING WEST FROM PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | MISSING BRICK                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                          |                  |             |                       |
|--------------------|------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/13/2017                                | Inspection Time: | 10:09AM     | MACP LEVEL -1         |
| Street Name        | 2ND ST                                   | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0211 |
| Survey Purpose     | ROUTINE ASSESSMENT                       | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON 2ND ST SECOND MH WEST OF PROSPECT AVE |                  |             | CITY: HERMOSA BEACH   |
|                    |                                          |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                                                                 | Inspection Time:                                                                                                                                                                                                                                          | 10:05AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | 2ND ST                                                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0212       |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 2ND ST JUST BEFORE PROSPECT AVE                                        |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                                                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                                  | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                                | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             | TROUGH FILLED WITH DIRT POSSIBLY BECAUSE ITS NO LONGER USED OR CAPPED OFF |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/13/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 11:36AM     | MACP LEVEL -1        |
| Street Name                                  | 1ST PL                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0213 |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | CORNER OF 1ST PL AND BARNEY CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>2</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>2</b>            | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/13/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 1:26PM      | MACP LEVEL -1         |
| Street Name                                  | 1ST ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0214 |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | CORNER OF 1ST ST AND BARNEY CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>            |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/13/2017                                    | Inspection Time:                                                                                                                                                                                                                                          | 1:31PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 1ST ST                                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0215 |
| Survey Purpose                               | ROUTINE ASSESSMENT                           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON 1ST ST BETWEEN BARNEY CT AND PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                        | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                     | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                   | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                          |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:37PM           |               |
| Street Name                                  | 1ST ST                             |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                 |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | WHERE 1ST ST AND PROSPECT AVE MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0216       |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | FLOWING ONTO BENCH                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                                           |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:29AM          |               |
| Street Name                                  | 1ST PL                                              |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                  |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | MIDDLE OF 1ST PL BETWEEN BARNEY CT AND PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0217       |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                          | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED AND ONE IS MISSING                                                                                                   |                  |               |
| General Comments                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/13/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 11:24PM     | MACP LEVEL -1         |
| Street Name                                  | 1ST PL                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0218 |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 1ST PL BEFORE PROSPECT AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                               |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/30/2017             | Inspection Time:                                                                                                                                                                                                                                          | 2:57AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0219       |
| Survey Purpose                               | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>3</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>NO CHANNEL</b>     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps            | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                           |                  |             |                  |               |
|--------------------|-------------------------------------------|------------------|-------------|------------------|---------------|
| Inspection Date:   | 4/13/2017                                 | Inspection Time: | 1:51PM      |                  | MACP LEVEL -1 |
| Street Name        | 1ST ST                                    | Survey By:       | A.SOUZA     | MH/ACCESS #:     | MH-0220       |
| Survey Purpose     | ROUTINE ASSESSMENT                        | MACP #           | U-1209-6134 | Field Book Page: | N/A           |
| Location Comments: | MIDDLE OF 1ST ST BETWEEN PCH AND MEYER CT |                  |             | CITY             | HERMOSA BEACH |
|                    |                                           |                  |             |                  |               |
|                    |                                           |                  |             |                  |               |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>D</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>4</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>4</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 1:19PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MEYER CT                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0221       |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE MEYER CT AND 1ST ST MEET  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                           | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                        | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                      | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             | SURFACE IS ASPHALT AND CONCRETE |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/14/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 1:27PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | MEYER CT                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0222       |
| Survey Purpose                                | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | MEYER CT JUST BELOW 1ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                      | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>4</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                   | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                 | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED MISSING                                                                                                              |                  |               |
| General Comments                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/25/2017           | Inspection Time:                                                                                                                                                                                                                                          | 6:26PM      | MACP LEVEL -1         |
| Street Name                                  | ARDMORE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0223 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                               |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 12:49PM     | MACP LEVEL -1         |
| Street Name              | 1ST PL                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0224 |
| Survey Purpose           | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON 1ST PL BEFORE PROSPECT AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                               |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>D</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                               |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                               |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                               |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                               |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                               |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                      | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                               |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 4/14/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 1:10PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | ARDMORE AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0225       |
| Survey Purpose           | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       | ARDMORE AVE JUST BELOW 2ND ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>F</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>2</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>2</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                               | <b>HOLE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps                    | <b>2</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/25/2017           | Inspection Time:                                                                                                                                                                                                                                          | 5:09PM      | MACP LEVEL -1         |
| Street Name                                  | 2ND ST              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0231 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>1</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>2</b> | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                                                                                                                                              |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                    |                  |             |                       |
|--------------------|--------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/25/2017          | Inspection Time: | 5:03PM      | MACP LEVEL -1         |
| Street Name        | 2ND ST             | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0232 |
| Survey Purpose     | ROUTINE ASSESSMENT | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: |                    |                  |             | CITY: HERMOSA BEACH   |
|                    |                    |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>2</b>   | <b>CORROSION</b>                                                                                                                                                                                                                                          |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 1:18PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HILL ST                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0232A      |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF HILL ST ON SIDEWALK |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>3</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               | NO CONE                                                                                                                                                                                                                                                   |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                    |                  |             |                       |
|--------------------|--------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/25/2017          | Inspection Time: | 4:57PM      | MACP LEVEL -1         |
| Street Name        | 2ND ST             | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0233 |
| Survey Purpose     | ROUTINE ASSESSMENT | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: |                    |                  |             | CITY: HERMOSA BEACH   |
|                    |                    |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>1</b>   | <b>CORROSION</b>                                                                                                                                                                                                                                          |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017           | Inspection Time:                                                                                                                                                                                                                                          | 4:52PM      | MACP LEVEL -1         |
| Street Name              | 2ND ST              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0234 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>2</b> | <b>CORROSION</b>                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/25/2017          | Inspection Time:                                                                                                                                                                                                                                          | 4:46PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 2ND ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0235       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>1</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>EROSION</b>     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORROSION</b>                                                                                                              |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                        |                  |             |                       |
|--------------------|----------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/14/2017                              | Inspection Time: | 1:15PM      | MACP LEVEL -1         |
| Street Name        | HILL ST                                | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0236 |
| Survey Purpose     | ROUTINE ASSESSMENT                     | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | END OF CULDISAC ON HILL ST ON SIDEWALK |                  |             | CITY: HERMOSA BEACH   |
|                    |                                        |                  |             |                       |

| OBSERVATION              | CODE TYPE         | CODE                                                                                                                                                                                                                                                      |
|--------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b>        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>3</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     | <b>NO CHIMNEY</b> |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>3</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         | <b>NO CONE</b>    |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                   |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                   |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |                   |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>          |                                                                                                                                                                                                                                                           |
| General Comments         |                   |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                                    |                  |             |                       |
|--------------------|----------------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/14/2017                                          | Inspection Time: | 9:58AM      | MACP LEVEL -1         |
| Street Name        | 3RD ST                                             | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0241 |
| Survey Purpose     | ROUTINE ASSESSMENT                                 | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | AT THE END OF 3RD ST ON CULDISAC BETWEEN VALLEY DR |                  |             | CITY: HERMOSA BEACH   |
|                    |                                                    |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>D</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>4</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>4</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>2</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         | ROOTS      |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>2</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         | ROOTS      |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                      |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 9:25AM      | MACP LEVEL -1         |
| Street Name              | 3RD ST                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0242 |
| Survey Purpose           | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | MIDDLE OF 3RD ST WEST OF ARDMORE AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                             |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                      |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 9:21AM      | MACP LEVEL -1         |
| Street Name              | 3RD ST                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0243 |
| Survey Purpose           | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON 3RD ST WHERE 3RD MEETS ARDMORE AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>4</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                              | CORRODED MISSING                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/14/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 9:31AM      | MACP LEVEL -1         |
| Street Name                                  | ARDMORE AVE                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0244 |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF ARDMORE AVE AND 3RD ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                        |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                    |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                            |                  |             |                       |
|--------------------|----------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/14/2017                  | Inspection Time: | 9:34AM      | MACP LEVEL -1         |
| Street Name        | 3RD ST                     | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0245 |
| Survey Purpose     | ROUTINE ASSESSMENT         | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON 3RD EAST OF ARDMORE AVE |                  |             | CITY: HERMOSA BEACH   |
|                    |                            |                  |             |                       |
|                    |                            |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>4</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017                             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:37AM           |               |
| Street Name                                  | 3RD ST                                |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 3RD ST BETWEEN PCH AND ARDMORE AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0246       |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>ROOTS</b>                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | <b>ROOTS</b>                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>2</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             | <b>ROOTS</b>                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                              | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                            | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:41AM           |               |
| Street Name                                  | 3RD ST                    |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 3RD ST JUST BEFORE PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0247       |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                  | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                | <b>5</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017             | Inspection Time:                                                                                                                                                                                                                                          | 2:56PM      | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0248 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>4</b>   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 5/17/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 10:50AM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                   | PACIFIC COAST HIGHWAY     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0249 |
| Survey Purpose                                | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | ON PCH ACROSS FROM 3RD ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>A</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                | <b>4</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|--|------------------|---------------|
| Inspection Date:         | 5/17/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 10:55AM     |  | MACP LEVEL -1    |               |
| Street Name              | PACIFIC COAST HIGHWAY |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA     |  | MH/ACCESS #:     | MH-0250       |
| Survey Purpose           | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134 |  | Field Book Page: | N/A           |
| Location Comments:       | ON PCH AND 4TH ST     |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  | CITY             | HERMOSA BEACH |
|                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |             |  |                  |               |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |             |  |                  |               |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |             |  |                  |               |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |             |  |                  |               |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |             |  |                  |               |
| Cover                    | Type:                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |             |  |                  |               |
|                          | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |             |  |                  |               |
|                          | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |             |  |                  |               |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |             |  |                  |               |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |             |  |                  |               |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Steps:                   | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |             |  |                  |               |
|                          | # of Steps            | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |             |  |                  |               |
| General Comments         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/17/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:07AM          |               |
| Street Name                                  | PACIFIC COAST HIGHWAY |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON PCH AND 5TH ST     |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0251       |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps            | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                    |                  |             |                  |               |
|--------------------|--------------------|------------------|-------------|------------------|---------------|
| Inspection Date:   | 5/25/2017          | Inspection Time: | 4:35PM      |                  | MACP LEVEL -1 |
| Street Name        | 5TH ST             | Survey By:       | A.SOUZA     | MH/ACCESS #:     | MH-0252       |
| Survey Purpose     | ROUTINE ASSESSMENT | MACP #           | U-1209-6134 | Field Book Page: | N/A           |
| Location Comments: |                    |                  |             | CITY             | HERMOSA BEACH |
|                    |                    |                  |             |                  |               |
|                    |                    |                  |             |                  |               |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>3</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>1</b>   | <b>CORROSION</b>                                                                                                                                                                                                                                          |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/14/2017          |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:56AM           |               |
| Street Name                                   | 5TH ST             |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | 5TH ST AND PINE ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0253       |
|                                               |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps         | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                        |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017              | Inspection Time:                                                                                                                                                                                                                                          | 7:50AM      | MACP LEVEL -1         |
| Street Name              | 5TH ST                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0254 |
| Survey Purpose           | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | 5TH ST AND HOPKINS AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                        |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>D</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>4</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>               | CORRODED MISSING                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                        |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017           |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 8:04AM           |               |
| Street Name                                  | 5TH ST              |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT  |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | 5TH AND HOPKINS AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0255       |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps          | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED AND MISSING                                                                                                          |                  |               |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017               | Inspection Time:                                                                                                                                                                                                                                          | 8:51AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PROSPECT AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0256       |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | PROSPECT AVE AND 5TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>ROOTS</b>            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | <b>ROOTS</b>            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps              | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/17/2017                        |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:30AM           |               |
| Street Name                                  | PROSPECT AVE                     |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT               |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | CORNER OF PROPECT AVE AND 6TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0257       |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/12/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 2:17PM      | MACP LEVEL -1        |
| Street Name                                  | 6TH ST                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0258 |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON 6TH ST JUST PAST GENTRY ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                               |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>F</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>           |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |             |                      |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                         |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/13/2017               | Inspection Time:                                                                                                                                                                                                                                          | 8:48AM      | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0259 |
| Survey Purpose           | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | PROSPECT AVE AND 4TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                         |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>D</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>4</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                         |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                         |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                         |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                         |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                         |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/13/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 8:36AM      | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0260 |
| Survey Purpose           | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | PROSPECT AVE AND GENTRY ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                            |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/13/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 8:12AM      | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0261 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | PROSPECT AVE AND HOLLOWELL AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>                       | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 8:08AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PROSPECT AVE                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0262       |
| Survey Purpose                               | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE PROSPECT AVE AND HOLLOWELL AVE MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED MISSING                                                                                                              |                  |               |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/13/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 8:18AM      | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0263 |
| Survey Purpose           | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | PROSPECT AVE AND MASSEY ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>D</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>4</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                   | CORRODED MISSING                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                            |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/13/2017                                           | Inspection Time:                                                                                                                                                                                                                                          | 8:22AM      | MACP LEVEL -1         |
| Street Name              | MASSEY ST                                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0265 |
| Survey Purpose           | ROUTINE ASSESSMENT                                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | MIDDLE OF MASSEY ST BETWEEN PROSPECT AVE AND 5TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                                            | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                             |                  |             |                       |
|--------------------|-----------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/13/2017                   | Inspection Time: | 8:26AM      | MACP LEVEL -1         |
| Street Name        | 5TH ST                      | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0266 |
| Survey Purpose     | ROUTINE ASSESSMENT          | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | CORNER OF MASSEY AND 5TH ST |                  |             | CITY: HERMOSA BEACH   |
|                    |                             |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>1</b>   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>4</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>2</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                          |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/13/2017                | Inspection Time:                                                                                                                                                                                                                                          | 9:31AM      | MACP LEVEL -1         |
| Street Name                                  | HOLLOWELL AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0268 |
| Survey Purpose                               | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | HOLLOWELL AVE AND 3RD ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                          |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>1</b>      | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                          |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/13/2017                                           | Inspection Time:                                                                                                                                                                                                                                          | 8:42AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | GENTRY ST                                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0269 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | MIDDLE OF GENTRY ST BETWEEN PROSPECT AVE AND 6TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>F</b>                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                          | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 7:45AM      | MACP LEVEL -1         |
| Street Name              | 5TH ST                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0270 |
| Survey Purpose           | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | 5TH ST EAST OF HOPKINS AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>D</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>                   | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                            |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017          |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 8:11AM           |               |
| Street Name                                  | HOPKINS AVE        |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | HOPKINS AND 4TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0272       |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    | ROOTS                                                                                                                                                                                                                                                     |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED AND MISSING                                                                                                          |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 8:19AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HOPKINS AVE                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0274       |
| Survey Purpose                               | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON HOPKINS AVE BETWEEN 3RD ST AND 4TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                    | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                 | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                               | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 2:05PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | OCEAN VIEW AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0275       |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE OCEAN VIEW AVE AND 4TH ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        |                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                  |                  |               |
| Frame: Condition                             |                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                      |                  |               |
| Chimney Condition                            |                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              |                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              |                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             |                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            |                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                           | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED AND 1 MISSING                                                                                                        |                  |               |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/13/2017           | Inspection Time:                                                                                                                                                                                                                                          | 2:02PM      | MACP LEVEL -1         |
| Street Name              |                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0276 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>D</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>1</b> | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 2:09PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | OCEAN VIEW AVE                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0277       |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | OCEAN VIEW AVE JUST BEFORE 5TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>2</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       | <b>ERODED</b>                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 5/17/2017             | Inspection Time:                                                                                                                                                                                                                                          | 10:44AM     | MACP LEVEL -1        |
| Street Name                                  | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0278 |
| Survey Purpose                               | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON PCH AND 3RD ST     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                       |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>4</b>   |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/13/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 10:42AM     | MACP LEVEL -1        |
| Street Name                                  | 3RD ST                                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0279 |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON 3RD ST FIRST MH GOING EAST FROM PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                        |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>F</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>2</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>3</b>                    | CORRODED AND MISSING                                                                                                                                                                                                                                      |             |                      |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |             |                      |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                   |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/13/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 10:36AM     | MACP LEVEL -1         |
| Street Name              | 3RD ST                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0280 |
| Survey Purpose           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON 3RD ST JUST BEFORE HOPKINS AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                          |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                   |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                 |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/13/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 9:46AM      | MACP LEVEL -1         |
| Street Name              | 3RD ST                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0281 |
| Survey Purpose           | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON 3RD ST JUST BEFORE GENTRY ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     | <b>ROOTS</b>                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>ROOTS</b>                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                        | <b>CORRODED MISSING</b>                                                                                                                                                                                                                                   |             |                       |
| General Comments         |                                 |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                 |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/13/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 9:42AM      | MACP LEVEL -1         |
| Street Name              | 3RD ST                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0282 |
| Survey Purpose           | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE 3RD ST AND GENTRY ST MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>4</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                 | <b>ROOTS</b>                                                                                                                                                                                                                                              |             |                       |
| Wall: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>2</b>             | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                 |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                  |                  |               |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                  |                  |               |
| Inspection Date:                             | 4/13/2017                       |                                                                                                                                                                                                                                                           | Inspection Time: | 9:51AM           |               |
| Street Name                                  | 3RD ST                          |                                                                                                                                                                                                                                                           | Survey By:       | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT              |                                                                                                                                                                                                                                                           | MACP #           | U-1209-6134      |               |
| Location Comments:                           | WHERE 3RD ST AND HOLLOWELL MEET |                                                                                                                                                                                                                                                           |                  | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                 |                                                                                                                                                                                                                                                           |                  | Field Book Page: | MH-0283       |
|                                              |                                 |                                                                                                                                                                                                                                                           |                  | CITY             | N/A           |
|                                              |                                 |                                                                                                                                                                                                                                                           |                  |                  | HERMOSA BEACH |
|                                              |                                 |                                                                                                                                                                                                                                                           |                  |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                  |                  |               |
| Location Code                                | <b>F</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                  |                  |               |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                  |                  |               |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                  |                  |               |
| Surface Type:                                | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                  |                  |               |
| Cover Type:                                  | <b>10</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |                  |                  |               |
| Fit:                                         | <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |                  |                  |               |
| Condition                                    | <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |                  |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                  |                  |               |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                  |                  |               |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                  |                  |               |
|                                              |                                 |                                                                                                                                                                                                                                                           |                  |                  |               |
| Cone: Condition                              | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Cone O&M Comment                             |                                 | <b>FRACTURE</b>                                                                                                                                                                                                                                           |                  |                  |               |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                  |                  |               |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                  |                  |               |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                  |                  |               |
| Steps: Material                              | <b>2</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |                  |                  |               |
| # of Steps                                   | <b>1</b>                        | <b>CORRODED</b>                                                                                                                                                                                                                                           |                  |                  |               |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                  |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017               | Inspection Time:                                                                                                                                                                                                                                          | 9:56AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PROSPECT AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0284       |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | PROSPECT AVE AND 3RD ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>ROOTS</b>            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps              | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 10:00AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | PROSPECT AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0285       |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | PROSPECT AVE JUST ABOVE 2ND ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>ROOTS</b>                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>2</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 11:17AM     | MACP LEVEL -1          |
| Street Name              |                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0285A |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                          |                     |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     | <b>NO CHIMNEY</b>   |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                   | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                          | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                        |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/13/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:37AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | GENTRY ST                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0286       |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON GENTRY RIGHT BEFORE PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>ROOTS</b>                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                          | <b>2</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017             | Inspection Time:                                                                                                                                                                                                                                          | 2:46PM      | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0287 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>4</b>   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/25/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:37PM           |               |
| Street Name                                  | PACIFIC COAST HIGHWAY |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0288       |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>C</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps            | <b>4</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017             | Inspection Time:                                                                                                                                                                                                                                          | 2:30PM      | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0289 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>2</b>   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                       |                  |             |                       |
|--------------------|-----------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/17/2017             | Inspection Time: | 11:14AM     | MACP LEVEL -1         |
| Street Name        | PACIFIC COAST HIGHWAY | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0290 |
| Survey Purpose     | ROUTINE ASSESSMENT    | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | PCH AND 6TH ST        |                  |             | CITY: HERMOSA BEACH   |
|                    |                       |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>2</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 7:26AM      | MACP LEVEL -1         |
| Street Name              | GRAVELY CT                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0291 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | END OF GRAVELY CT BELOW 6TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>4</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                       | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017           | Inspection Time:                                                                                                                                                                                                                                          | 5:22PM      | MACP LEVEL -1         |
| Street Name              | ARDMORE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0295 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>2</b> | <b>EROSION</b>                                                                                                                                                                                                                                            |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017           | Inspection Time:                                                                                                                                                                                                                                          | 5:33PM      | MACP LEVEL -1         |
| Street Name              | ARDMORE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0296 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>1</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>2</b> | <b>CORROSION</b>                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/14/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 10:07AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                   | 4TH ST                                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0296A      |
| Survey Purpose                                | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | ON 4TH ST FIRST MH EAST OF ARDMORE AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                  | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                               | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                             | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/25/2017          | Inspection Time:                                                                                                                                                                                                                                          | 5:37PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | ARDMORE AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0297       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>2</b>                                                                                                                                                                                                                                                  | CORROSION MISSING                                                                                                             |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017           | Inspection Time:                                                                                                                                                                                                                                          | 1:05PM      | MACP LEVEL -1         |
| Street Name              | ARDMORE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0298 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>1</b> | <b>CORROSION</b>                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/14/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 10:30AM     | MACP LEVEL -1         |
| Street Name                                  | 5TH ST                                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0299 |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | FIRST MH ON 5TH ST EAST OF ARDMORE AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                        |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>Y</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>4</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>1</b>                    | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                 |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                                       | Inspection Time:                                                                                                                                                                                                                                          | 10:26AM     | MACP LEVEL -1         |
| Street Name              | 5TH ST                                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0300 |
| Survey Purpose           | ROUTINE ASSESSMENT                              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON A DRIVEWAY ON 5TH ST BETWEEN ARDMORE AND PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                 |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>Y</b>                                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                 |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                 |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                 |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                 |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                                        | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                                 |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/14/2017                                      | Inspection Time:                                                                                                                                                                                                                                          | 10:21AM     | MACP LEVEL -1        |
| Street Name                                  | 5TH ST                                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0301 |
| Survey Purpose                               | ROUTINE ASSESSMENT                             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | SIDEWALK ON 5TH ST BETWEEN ARDMORE AVE AND PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                                |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>F</b>                                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>3</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                              |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                                |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                                |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>2</b>                              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>1</b>                            | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                                                |                                                                                                                                                                                                                                                           |             |                      |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 10:18AM     | MACP LEVEL -1         |
| Street Name              | 5TH ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0302 |
| Survey Purpose           | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | SIDEWALK ON 5TH ST JUST BEFORE PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>2</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         | <b>CRACKED AND HOLE</b>            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                    |                                                                                                                                                                                                                                                           |             |                       |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                              |                  |             |                       |
|--------------------|----------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/14/2017                                    | Inspection Time: | 10:11AM     | MACP LEVEL -1         |
| Street Name        | 4TH ST                                       | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0303 |
| Survey Purpose     | ROUTINE ASSESSMENT                           | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | MIDDLE OF 4TH ST BETWEEN ARDMORE AVE AND PCH |                  |             | CITY: HERMOSA BEACH   |
|                    |                                              |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>1</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                           |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 10:13AM     | MACP LEVEL -1         |
| Street Name              | 4TH ST                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0304 |
| Survey Purpose           | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON 4TH ST JUST BEFORE PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                           |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                           |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 3:34AM      | MACP LEVEL -1         |
| Street Name              | VALLEY DR           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0311 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>F</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>3</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/12/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 7:50AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | CYPRESS AVE                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0312       |
| Survey Purpose                                | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | ON CYPRESS BELOW 6TH ST NEXT TO SOUTH PARK |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                      | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                   | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                 | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/12/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 7:55AM      | MACP LEVEL -1        |
| Street Name                                  | CYPRESS AVE                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0313 |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON CYPRESS AVE AND 6TH ST       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                 |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>F</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>4</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       | <b>BENCH COMPLETELY COVERED</b> |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     | <b>NO CHANNEL</b>               |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>             |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 7:59AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 6TH ST                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0316       |
| Survey Purpose                               | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | END OF 6TH ST NEAR VALLEY DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                        | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                     | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                   | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 11:37PM     | MACP LEVEL -1         |
| Street Name              | BAYVIEW DR         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0320 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>5</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |               |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|
| Inspection Date:         | 4/6/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:24AM       | MACP LEVEL -1         |
| Street Name              | 24TH ST            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA       | MH/ACCESS #.: MH-0321 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134   | Field Book Page: N/A  |
| Location Comments:       | NEAR PCH           | CITY                                                                                                                                                                                                                                                      | HERMOSA BEACH |                       |
| <b>OBSERVATION</b>       |                    |                                                                                                                                                                                                                                                           |               |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |               |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |               |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |               |                       |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |               |                       |
| Cover Type:              | <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |               |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |               |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |               |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |               |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |               |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |               |                       |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |               |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |               |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |               |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |               |                       |
| Steps: Material          | <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |               |                       |
| # of Steps               | <b>0</b>           |                                                                                                                                                                                                                                                           |               |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |               |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/6/2017            | Inspection Time:                                                                                                                                                                                                                                          | 10:47AM     | MACP LEVEL -1         |
| Street Name                                  | 20TH PL             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0322 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | NEAR PCH            |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/6/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:52AM     | MACP LEVEL -1         |
| Street Name              | 20TH ST            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0323 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | NEAR PCH           |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 7:27AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HARPER AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0324       |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE HARPER AVE AND 19TH ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | ERODED PARTS OF TROUGH MISSING    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/7/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 7:35AM      | MACP LEVEL -1          |
| Street Name                                  | HARPER AVE                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0324A |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | HARPER AVE JUST BELOW 19TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                               |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>2</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>2</b>           | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                             | 4/7/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 7:39AM                                                                                                                        | MACP LEVEL -1          |
| Street Name                                  | HARPER AVE                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0324B |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                           | 2ND MH BELOW 19TH ST ON HARPER AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                                | <b>F</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                        |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                                | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                        | Type:                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                       | Material                           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                              | # of Steps                         | <b>5</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                        |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                     |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:44AM           |               |
| Street Name                                  | HARPER AVE                   |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT           |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON HARPER AVE NEAR ORMOND LN |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0324C      |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                        | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                     | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                   | <b>4</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                           |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:48AM           |               |
| Street Name                                  | HARPER AVE                         |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                 |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON HARPER AVE JUST ABOVE ORMOND LN |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0324D      |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 8:05AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 17TH ST                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0324E      |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | END OF 17TH ST JUST PAST GOLDEN ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 8:08AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 17TH ST                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0324F      |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 17TH ST JUST PAST GOLDEN ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>4</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                                              | Inspection Time:                                                                                                                                                                                                                                          | 7:21AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 19TH ST                                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0325       |
| Survey Purpose                               | ROUTINE ASSESSMENT                                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF 19TH ST BETWEEN HARPER AVE AND PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>ROOTS</b>                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | <b>ROOTS</b>                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                            | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 7:16AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 19TH ST                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0326       |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 19TH ST BEFORE PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: INGLEWOOD |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM        |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                         | 4/6/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:58AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                              | 20TH ST            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0327       |
| Survey Purpose                           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                       | NEAR PCH           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                 |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                    |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 10:03AM          |               |
| Street Name                                  | 20TH ST                      |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT           |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 20TH ST NEAR PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0328       |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                        | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                     | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                   | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: INGLEWOOD |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM        |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                         | 4/6/2017                | Inspection Time:                                                                                                                                                                                                                                          | 10:40AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                              | 20TH PL                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0329       |
| Survey Purpose                           | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                       | JUST ABOVE PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                          |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                       | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                            | <b>C</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                        | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                             | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                            | <b>1</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                    | Type:                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                          | Fit:                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                          | Condition               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                    | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                         | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                        | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                     |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                          | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                         |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                          | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                         |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                         | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                   |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                        | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                 |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                   | Material                | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                          | # of Steps              | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                         |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/6/2017                | Inspection Time:                                                                                                                                                                                                                                          | 10:19AM     | MACP LEVEL -1         |
| Street Name                                  | 24TH ST                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0330 |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | JUST ABOVE PROSPECT AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                         |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                         |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                         |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                         |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>1</b>     |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 12:38PM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name              | MONTEREY BLVD      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0501       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>15</b>                                                                                                                                                                                                                                                 | <b>CORROSION</b>                                                                                                              |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                             |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/3/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 12:14PM     | MACP LEVEL -1         |
| Street Name              | 20TH ST                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0504 |
| Survey Purpose           | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | CORNER OF 20TH AND POWER ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                             |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                             |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                             |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                             |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                             |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                             |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                    |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                             |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                        |  |
|-----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|--|------|------------------------|--|
| MANHOLE CONDITION ASSESSMENT FORM             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                        |  |
| Inspection Date:                              | 4/3/2017                     |                                                                                                                                                                                                                                                           |                                                                                                                               | Inspection Time: | 12:18PM     |  |      | MACP LEVEL -1          |  |
| Street Name                                   | 20TH ST                      |                                                                                                                                                                                                                                                           |                                                                                                                               | Survey By:       | A.SOUZA     |  |      | MH/ACCESS #.: MH-0504A |  |
| Survey Purpose                                | ROUTINE ASSESSMENT           |                                                                                                                                                                                                                                                           |                                                                                                                               | MACP #           | U-1209-6134 |  |      | Field Book Page: N/A   |  |
| Location Comments:                            | CORNER OF 20TH AND POWER ST  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  | CITY | HERMOSA BEACH          |  |
|                                               |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                        |  |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |             |  |      |                        |  |
| Location Code                                 | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |             |  |      |                        |  |
| Inspection Status                             | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |             |  |      |                        |  |
| Access Type:                                  | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |             |  |      |                        |  |
| Surface Type:                                 | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |             |  |      |                        |  |
| Cover                                         | Type:                        | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |             |  |      |                        |  |
|                                               | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |             |  |      |                        |  |
|                                               | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |             |  |      |                        |  |
| Cover Adjustment Ring                         | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |             |  |      |                        |  |
| Frame: Condition                              | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |             |  |      |                        |  |
| Chimney Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                        |  |
| Chimney O&M Comments                          |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                        |  |
| Cone: Condition                               | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                        |  |
| Cone O&M Comment                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                        |  |
| Wall: Condition                               | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                        |  |
| Wall O&M Comment                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                        |  |
| Bench: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                        |  |
| Bench Deffect Comments                        |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                        |  |
| Channel Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                        |  |
| Channel Deffect Comments                      |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                        |  |
| Steps:                                        | Material                     | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |             |  |      |                        |  |
|                                               | # of Steps                   | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                     |                  |             |  |      |                        |  |
| General Comments                              | FRAME AND CHIMNEY ARE OFFSET |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                        |  |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/3/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 12:28PM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                   | POWER ST                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0504B      |
| Survey Purpose                                | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | ON POWER ST JUST BELOW 20TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOT (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                          | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                       | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                     | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |             |                        |
|-----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                    |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                              | 4/3/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 12:40PM     | MACP LEVEL -1          |
| Street Name                                   | POWER ST                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0504C |
| Survey Purpose                                | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                            | SMALL SIDE ROAD JUST BELOW 20TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                               |                                    |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                 | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                             | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                  | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                 | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                         | Type: <b>5</b>                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                               | Fit: <b>1</b>                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                               | Condition <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                         | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                              | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                          |                                    |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                               | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                              |                                    |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                               | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                              |                                    |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                        |                                    |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                      |                                    |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                        | Material <b>3</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                               | # of Steps <b>3</b>                | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                        |
| General Comments                              |                                    |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/3/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 11:57AM     | MACP LEVEL -1         |
| Street Name                                  | POWER ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0505 |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF POWER AND 21ST S |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                  |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>              |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |             |                           |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |             |                           |
| Inspection Date:                             | 4/3/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 12:03PM     | MACP LEVEL -1             |
| Street Name                                  | 21ST ST                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-050A 505A |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A      |
| Location Comments:                           | END OF 21ST ST SOUTH WEST OF POWER ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH       |
|                                              |                                       |                                                                                                                                                                                                                                                           |             |                           |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                           |
| Location Code                                | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                           |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                           |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                           |
| Surface Type:                                | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                           |
| Cover                                        | Type: <b>10</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                           |
|                                              | Fit: <b>1</b>                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                           |
|                                              | Condition <b>1</b>                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                           |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                           |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                           |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                           |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |             |                           |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                           |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                           |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                           |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                           |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                           |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |             |                           |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                           |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |             |                           |
| Steps:                                       | Material <b>NA</b>                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                           |
|                                              | # of Steps <b>0</b>                   |                                                                                                                                                                                                                                                           |             |                           |
| General Comments                             | FRAME AND CHIMNEY OFFSET              |                                                                                                                                                                                                                                                           |             |                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                             |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/23/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 12:29PM     | MACP LEVEL -1         |
| Street Name              | POWER ST                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0506 |
| Survey Purpose           | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | HALF ON STREET AND DRIVEWAY |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                             |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>Y</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                             |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                             |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                             |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>3</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                             |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                             |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                    | <b>MISSING</b>                                                                                                                                                                                                                                            |             |                       |
| General Comments         |                             |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                            |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 12:23PM          |               |
| Street Name                                  | 24TH ST                              |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                   |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | INTERSECTION OF 24TH ST AND POWER ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0507       |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>2</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             | <b>ROOTS</b>                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>2</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       | <b>LOOKS ERODED</b>                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>LOOKS ERODED</b>                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                             | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                           | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/23/2017           | Inspection Time:                                                                                                                                                                                                                                          | 2:12PM      | MACP LEVEL -1         |
| Street Name              | 24TH PL             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0508 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>2</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   | <b>ERODED</b>       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>2</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>ERODED</b>       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>1</b> | <b>MISSING</b>                                                                                                                                                                                                                                            |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                      |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:39PM           |               |
| Street Name                                  | 25TH ST                        |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT             |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | CORNER OF HOME OWNERS DRIVEWAY |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0509       |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>Y</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       | <b>ERODED</b>                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>ERODED</b>                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             | <b>FRAME SLIGHTLY OFFSET</b>   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                      |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:48PM           |               |
| Street Name                                  | 25TH ST                        |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT             |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | SIDEWALK BETWEEN TWO DRIVEWAYS |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0510       |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/23/2017           | Inspection Time:                                                                                                                                                                                                                                          | 8:23AM      | MACP LEVEL -1         |
| Street Name              | VALLEY PARK         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0512 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | EDGE OF VALLEY PARK |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>D</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>3</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>9</b>            | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                        |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 3/23/2017              | Inspection Time:                                                                                                                                                                                                                                          | 8:27AM      | MACP LEVEL -1          |
| Street Name              | VALLEY PARK            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0512A |
| Survey Purpose           | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | EDGE OF VALLEY PARK    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                        |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>D</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                        |
| Access Type:             | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>4</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>5</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                        |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                        |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          |                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                        |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                        |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                        |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>3</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>10</b>              | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                        |
| General Comments         | FRAME SLIGHTLY OFF SET |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                          |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                          |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 3/23/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 8:17AM      | MACP LEVEL -1        |
| Street Name                                  | VALLEY PARK                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0513 |
| Survey Purpose                               | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | NEAR BENCHES AND BBQ PITS AT VALLEY PARK |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                          |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                         | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>D</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                      |
| Access Type:                                 | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>4</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>2</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         | <b>ROOTS</b>                             |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>2</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       | <b>ERODED</b>                            |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>2</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     | <b>ERODED</b>                            |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>2</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>1</b>                      | <b>MISSING</b>                                                                                                                                                                                                                                            |             |                      |
| General Comments                             |                                          |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017           | Inspection Time:                                                                                                                                                                                                                                          | 8:07AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | VALLEY PARK         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0514       |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | EDGE OF VALLEY PARK |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>2</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       | <b>ERODED</b>       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>ERODED</b>       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps          | <b>3</b>                                                                                                                                                                                                                                                  | <b>CORRODED MISSING</b>                                                                                                       |                  |               |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                    |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:43AM           |               |
| Street Name                                  | VALLEY PARK                  |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT           |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | EDGE OF VALLEY PARK          |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0515       |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                        | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | SMALL ROOTS AND LIGHT CRACKS |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>2</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       | ERODED                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | ERODED                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                     | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                   | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED MISSING                                                                                                              |                  |               |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                          |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 3/22/2017                | Inspection Time:                                                                                                                                                                                                                                          | 10:14AM     | MACP LEVEL -1         |
| Street Name                                   | 29TH CT                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0517 |
| Survey Purpose                                | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | 29TH CT AND INGLESIDE DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                          |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                  | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>2</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>5</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b>      |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                          |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/21/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 12:27PM     | MACP LEVEL -1         |
| Street Name              | INGLESIDE DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0518 |
| Survey Purpose           | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | CORNER OF INGLESIDE DR AND 29TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                    | <b>ROOTS</b>                                                                                                                                                                                                                                              |             |                       |
| Wall: Condition          | <b>2</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                    | <b>ROOTS</b>                                                                                                                                                                                                                                              |             |                       |
| Bench: Condition         | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                           | <b>STEP IS CORRODED</b>                                                                                                                                                                                                                                   |             |                       |
| General Comments         |                                    |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 3/21/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 12:34PM     | MACP LEVEL -1        |
| Street Name                                  | INGLESIDE DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0519 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | CORNER OF INGLESIDE DR AND 30TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                    |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>D</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                      |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>4</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover Type:                                  | <b>5</b>                           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
| Fit:                                         | <b>1</b>                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
| Condition                                    | <b>1</b>                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>NA</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Steps: Material                              | <b>3</b>                           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
| # of Steps                                   | <b>2</b>                           | I BELIEVE ITS METAL WITH PLATIC COATING                                                                                                                                                                                                                   |             |                      |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |             |                      |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/21/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 12:44PM     | MACP LEVEL -1         |
| Street Name              | INGLESIDE DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0520 |
| Survey Purpose           | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | CORNER OF INGLESIDE DR AND 31ST ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>2</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     | <b>ROOTS</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>ROOTS</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                           | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                         |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 3/21/2017                               | Inspection Time:                                                                                                                                                                                                                                          | 11:13AM     | MACP LEVEL -1          |
| Street Name              | MORNINGSIDE DR                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0521A |
| Survey Purpose           | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | INTERSECTION OF MORNINGSIDE AND 31ST ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>C</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                        |
| Access Type:             | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>5</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>NA</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                                         |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>3</b>                                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>1</b>                                | I BELIEVE IT METAL WITH A PLASTIC COATING                                                                                                                                                                                                                 |             |                        |
| General Comments         |                                         |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/21/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 12:12                                                                                                                         |                  | MACP LEVEL -1 |
| Street Name                                   | MORNINGSIDE DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0522A      |
| Survey Purpose                                | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | INTERSECTION OF MORNINGSIDE DR AND 30TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             |                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                   | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                 | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH A PLASTIC COATING                                                                                   |                  |               |
| General Comments                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/22/2017                                  |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:31AM           |               |
| Street Name                                  | MORNINGSIDE DR                             |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                         |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | INTERSECTION OF MORNINGSIDE DR AND 29TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0523       |
|                                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                   | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                 | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 9:39AM      | MACP LEVEL -1         |
| Street Name              | 29TH ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0524 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>F</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         |                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>NO CHANNEL</b>   |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |



**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                    |                  |             |                  |               |
|--------------------|--------------------|------------------|-------------|------------------|---------------|
| Inspection Date:   | 3/22/2017          | Inspection Time: | 10:22AM     |                  | MACP LEVEL -1 |
| Street Name        | 29TH CT            | Survey By:       | A.SOUZA     | MH/ACCESS #.:    | MH-0526       |
| Survey Purpose     | ROUTINE ASSESSMENT | MACP #           | U-1209-6134 | Field Book Page: | N/A           |
| Location Comments: |                    |                  |             | CITY             | HERMOSA BEACH |
|                    |                    |                  |             |                  |               |
|                    |                    |                  |             |                  |               |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>3</b>   | <b>I BELIEVE THERE METAL WITH A PLASTIC COATING</b>                                                                                                                                                                                                       |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:28AM     | MACP LEVEL -1          |
| Street Name              | 29TH CT             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0526A |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                          |                     |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                        |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                    | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                   | Material <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                          | # of Steps <b>3</b> | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                                                                                                                                                 |             |                        |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Inspection Date:                             | 3/22/2017          | Inspection Time:                                                                                                                                                                                                                                          | 10:42AM                                                                                                                       | MACP LEVEL -1        |
| Street Name                                  | 29TH CT            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #: MH-0527 |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH  |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                      |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                      |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                      |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                      |
| Surface Type:                                | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                      |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                      |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                      |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                      |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                      |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                      |
| Chimney Condition                            | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                      |
|                                              | # of Steps         | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                      |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                            |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 3/22/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 10:49AM     | MACP LEVEL -1         |
| Street Name                                   | 29TH CT                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0528 |
| Survey Purpose                                | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | 29TH CT AND MORNINGSIDE DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                            |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                  | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>2</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>5</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>NA</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b>        |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                            |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 11:08AM     | MACP LEVEL -1         |
| Street Name              | 29TH CT             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0529 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 1:19PM      | MACP LEVEL -1         |
| Street Name              | 28TH CT                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0530 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | END OF 28TH CT                 |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>3</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     | <b>APPEARS TO HAVE A LINER</b> |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>APPEARS TO HAVE A LINER</b> |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         | <b>APPEARS TO HAVE A LINER</b> |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 1:11PM      | MACP LEVEL -1         |
| Street Name              | 28TH CT                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0531 |
| Survey Purpose           | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | MORNINGSIDE DR AND 28TH CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                            |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017           | Inspection Time:                                                                                                                                                                                                                                          | 1:29PM      | MACP LEVEL -1         |
| Street Name              | 28TH CT             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0532 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>NA</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>NO CHANNEL</b>   |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>1</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:26AM           |               |
| Street Name                                  | VALLEY PARK                       |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | EDGE OF VALLEY PARK NEAR WALK WAY |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0533       |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            |                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/22/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:37PM           |               |
| Street Name                                   | MORNINGSIDE DR        |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | NEXT TO PARK IN GRASS |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0534       |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>D</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>3</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>2</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              | <b>CRACK</b>          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>2</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        | <b>DETERIORATING</b>  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>2</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      | <b>DETERIORATING</b>  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps            | <b>2</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/22/2017          | Inspection Time:                                                                                                                                                                                                                                          | 2:20PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | 27TH CT            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0535       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:58AM           |               |
| Street Name                                  | VALLEY PARK                               |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | CORNER OF PARK BY GOULD AVE AND VALLEY DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0537       |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                | <b>4</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                           |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/16/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 1:12PM      | MACP LEVEL -1         |
| Street Name              | ARDMORE AVE                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0538 |
| Survey Purpose           | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF ARDMORE AVE AND GOULD AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>                             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>                         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>2</b>                       | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/16/2017                                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:17PM           |               |
| Street Name                                  | ARDMORE AVE                               |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | INTERSECTION OF ARDMORE AVE AND GOULD AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0539       |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                          |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 4:22AM      | MACP LEVEL -1         |
| Street Name              | GOULD AVE                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0540 |
| Survey Purpose           | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | SIDEWALK ON GOULD AVE BEFORE ARDMORE AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>2</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     | <b>LIGHT ROOTS</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>LIGHT ROOTS</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>                                 | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                          |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 3/24/2017                                     | Inspection Time:                                                                                                                                                                                                                                          | 4:08AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                   | GOULD AVE                                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0541 |
| Survey Purpose                                | ROUTINE ASSESSMENT                            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | NEAR SIDEWALK ON GOULD AVE BEFORE ARDMORE AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>D</b>                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>5</b>                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>1</b>                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                                    | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                              | SURFACE IS PLANTS AND TREES                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                             |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                                                   | Inspection Time:                                                                                                                                                                                                                                          | 4:01PM      | MACP LEVEL -1         |
| Street Name              | GOULD AVE                                                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0542 |
| Survey Purpose           | ROUTINE ASSESSMENT                                          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | NEAR SIDEWALK IN GRASS ON GOULD AVE JUST BEFORE ARDMORE AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                             |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>E</b>                                                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                                                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                                                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                             |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                             |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                             |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                             |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                             |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                                                    | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                                             |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                              |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 3:42PM      | MACP LEVEL -1         |
| Street Name              | GOULD AVE                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0543 |
| Survey Purpose           | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | AT GOULD AVE AND EL OESTE DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                              |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>A</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                    | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                              |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                              |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                              |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                              |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                              |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>4</b>                     |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                              |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/2/2017                                                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:25PM           |               |
| Street Name                                  | GOULD AVE                                                        |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                               |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON GOULD AVE BETWEEN EL OESTE DR AND PCH AT THE END OF THE ALLEY |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0544       |
|                                              |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>A</b>                                                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                            | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                       | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 5/2/2017                          |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:17PM           |               |
| Street Name                                   | GOULD AVE                         |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | ON GOULD AVE FIRST MH WEST OF PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0544A      |
|                                               |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>A</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         |                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                  |                  |               |
| Frame: Condition                              |                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                      |                  |               |
| Chimney Condition                             |                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Chimney O&M Comments                          |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               |                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Cone O&M Comment                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               |                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Wall O&M Comment                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              |                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Bench Deffect Comments                        |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             |                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Channel Deffect Comments                      |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                          | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                        | <b>4</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/24/2017                                                   |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 3:09PM           |               |
| Street Name                                  | ALLEY                                                       |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                          |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | IN ALLEY BETWEEN PCH AND EL OESTE DR NEAR PARKING STRUCTURE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0545       |
|                                              |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>H</b>                                                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                       | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                    | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                  | <b>5</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                                    |                  |             |                       |
|--------------------|----------------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 3/24/2017                                          | Inspection Time: | 2:58PM      | MACP LEVEL -1         |
| Street Name        | ALLEY                                              | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0546 |
| Survey Purpose     | ROUTINE ASSESSMENT                                 | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ALLEY BETWEEN PCH AND EL OESTE DR NEAR ROUND TABLE |                  |             | CITY: HERMOSA BEACH   |
|                    |                                                    |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>H</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>5</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/24/2017                                                      |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:41PM           |               |
| Street Name                                  | ALLEY                                                          |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                             |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ALLEY BETWEEN PCH AND LA CARLITA ST IN A BUSINESS PARKING AREA |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0547       |
|                                              |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>H</b>                                                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>5</b>                                                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                       | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                     | <b>5</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             | SURFACE IS ASPHALT AND CONCRETE                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                              |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 2:31PM      | MACP LEVEL -1         |
| Street Name              | ALLEY                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0548 |
| Survey Purpose           | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ALLEY WHERE IT MEETS 30TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                              |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>H</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CANT OPEN (SD)SURCHARGED DEBRIS                                                   |             |                       |
| Access Type:             | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                    | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                              |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                              |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                              |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                              |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                              |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>4</b>                     | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                              |                                                                                                                                                                                                                                                           |             |                       |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                      |                  |             |                       |
|--------------------|--------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 3/24/2017                            | Inspection Time: | 2:05PM      | MACP LEVEL -1         |
| Street Name        | LA CARLITA ST                        | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0549 |
| Survey Purpose     | ROUTINE ASSESSMENT                   | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON LA CARLITA ST JUST BEFORE 30TH ST |                  |             | CITY: HERMOSA BEACH   |
|                    |                                      |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>3</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/24/2017                                     | Inspection Time:                                                                                                                                                                                                                                          | 2:11PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MARLITA ST                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0550       |
| Survey Purpose                               | ROUTINE ASSESSMENT                            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | INTERSECTION OF MARLITA ST AND L A CARLITA ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                    | <b>4</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|--|------------------|---------------|
| Inspection Date:         | 3/24/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 3:17PM      |  | MACP LEVEL -1    |               |
| Street Name              | EL OESTE DR           |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA     |  | MH/ACCESS #.:    | MH-0551       |
| Survey Purpose           | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134 |  | Field Book Page: | N/A           |
| Location Comments:       | MIDDLE OF EL OESTE DR |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  | CITY             | HERMOSA BEACH |
|                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |             |  |                  |               |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |             |  |                  |               |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |             |  |                  |               |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |             |  |                  |               |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |             |  |                  |               |
| Cover                    | Type:                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |             |  |                  |               |
|                          | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |             |  |                  |               |
|                          | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |             |  |                  |               |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |             |  |                  |               |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |             |  |                  |               |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Steps:                   | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |             |  |                  |               |
|                          | # of Steps            | <b>5</b>                                                                                                                                                                                                                                                  |                                                                                                                               |             |  |                  |               |
| General Comments         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|--|------------------|---------------|
| Inspection Date:         | 3/24/2017                      |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 3:23PM      |  | MACP LEVEL -1    |               |
| Street Name              | EL OESTE DR                    |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA     |  | MH/ACCESS #:     | MH-0552       |
| Survey Purpose           | ROUTINE ASSESSMENT             |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134 |  | Field Book Page: | N/A           |
| Location Comments:       | TOP OF CULDISAC ON EL OESTE DR |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  | CITY             | HERMOSA BEACH |
|                          |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |             |  |                  |               |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |             |  |                  |               |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |             |  |                  |               |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |             |  |                  |               |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |             |  |                  |               |
| Cover                    | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |             |  |                  |               |
|                          | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |             |  |                  |               |
|                          | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |             |  |                  |               |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |             |  |                  |               |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |             |  |                  |               |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Steps:                   | Material                       | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |             |  |                  |               |
|                          | # of Steps                     | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |             |  |                  |               |
| General Comments         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                                        |                  |             |                       |
|--------------------|--------------------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/16/2017                                              | Inspection Time: | 1:07PM      | MACP LEVEL -1         |
| Street Name        | GOULD AVE                                              | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0553 |
| Survey Purpose     | ROUTINE ASSESSMENT                                     | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | OFF GOULD AVE AND ARDMORE AVE ON EASMENT BY THE CORNER |                  |             | CITY: HERMOSA BEACH   |
|                    |                                                        |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>D</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>3</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 3:51PM      | MACP LEVEL -1         |
| Street Name              | GOULD TER                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0554 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | END OF THE STREET ON GOULD TER |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                  |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 12:49PM     | MACP LEVEL -1         |
| Street Name              | TENNYSON PL                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0561 |
| Survey Purpose           | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | END OF THE STREET ON TENNYSON PL |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                  |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>                         |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                  |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |               |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|
| Inspection Date:         | 3/24/2017             | Inspection Time:                                                                                                                                                                                                                                          | 12:42PM       | MACP LEVEL -1         |
| Street Name              | TENNYSON PL           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA       | MH/ACCESS #.: MH-0562 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134   | Field Book Page: N/A  |
| Location Comments:       | MIDDLE OF TENNYSON PL | CITY                                                                                                                                                                                                                                                      | HERMOSA BEACH |                       |
|                          |                       |                                                                                                                                                                                                                                                           |               |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |               |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |               |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |               |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |               |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |               |                       |
| Cover                    | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |               |                       |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |               |                       |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |               |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |               |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |               |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |               |                       |
|                          |                       |                                                                                                                                                                                                                                                           |               |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |               |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |               |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |               |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |               |                       |
| Steps:                   | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |               |                       |
|                          | # of Steps <b>2</b>   |                                                                                                                                                                                                                                                           |               |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |               |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 3/24/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 12:32PM     | MACP LEVEL -1         |
| Street Name                                  | TENNYSON PL                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0563 |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON TENNYSON PL JUST BELOW 30TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>8</b>               |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                           |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 12:17PM     | MACP LEVEL -1         |
| Street Name              | AMBY PL                                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0564 |
| Survey Purpose           | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON AMBY PL JUST BELOW BRAEHOLM PL 30TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>5</b>                                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                           |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                   |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 12:10PM     | MACP LEVEL -1         |
| Street Name              | AMBY PL                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0565 |
| Survey Purpose           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | TOP OF AMBY PL JUST BELOW 30TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                                   |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>7</b>               |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                   |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 5/16/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 12:57PM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                  | ARDMORE AVE                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0566 |
| Survey Purpose                               | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON ARDMORE AVE FIRST MH NORTH OF GOULD AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                   | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                 | <b>5</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: INGLEWOOD |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM        |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                         | 5/16/2017                               | Inspection Time:                                                                                                                                                                                                                                          | 11:39AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                              | ARDMORE AVE                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0567       |
| Survey Purpose                           | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                       | INTERSECTION OF ARDMORE AVE AND 30TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                          |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                       | <b>CODE TYPE</b>                        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                            | <b>C</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                        | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                             | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                            | <b>1</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                    | Type:                                   | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                          | Fit:                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                          | Condition                               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                    | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                         | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                        | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                     |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                          | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                         |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                          | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                         |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                         | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                   |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                        | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                 |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                   | Material                                | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                          | # of Steps                              | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                    |                  |               |
| General Comments                         |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 5/16/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 11:51AM     | MACP LEVEL -1          |
| Street Name              | ARDMORE AVE                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0567A |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | ARDMORE AVE JUST BELOW 30TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>2</b>                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>3</b>                       |                                                                                                                                                                                                                                                           |             |                        |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                        |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                   |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/24/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 11:48PM     | MACP LEVEL -1         |
| Street Name              | HERMOSA VIEW DR                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0569 |
| Survey Purpose           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON HERMOSA VIEW DR 3RD HOUSE DOWN |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>5</b>                          |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                   |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/24/2017                                     |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 12:00PM          |               |
| Street Name                                   | HERMOSA VIEW DR                               |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT                            |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | AT THE END OF THE CULDISAC ON HERMOSA VIEW DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0570       |
|                                               |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                         | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                    | <b>5</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/16/2017                                      | Inspection Time:                                                                                                                                                                                                                                          | 2:01PM      | MACP LEVEL -1         |
| Street Name                                  | VALLEY DR                                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0575 |
| Survey Purpose                               | ROUTINE ASSESSMENT                             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | OFF OF VALLEY DR IN PARKING LOT OF ROTARY CLUB |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>6</b>                            | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                                |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                                   |                  |             |                       |
|--------------------|---------------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/16/2017                                         | Inspection Time: | 1:55PM      | MACP LEVEL -1         |
| Street Name        | VALLEY DR                                         | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0576 |
| Survey Purpose     | ROUTINE ASSESSMENT                                | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON SIDEWALK OFF VALLEY DR IN FRONT OF ROTARY CLUB |                  |             | CITY: HERMOSA BEACH   |
|                    |                                                   |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>4</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 8:46AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | VALLEY PARK                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0582       |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | EDGE OF VALLEY PARK NEAR RAIL |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                  |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 3/23/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 8:37AM      | MACP LEVEL -1          |
| Street Name              | VALLEY PARK                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0582A |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | EDGE OF VALLEY PARK NEAR HOMES |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>D</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                        |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>4</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>3</b>                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>6</b>                       | I BELIEVE THER METAL WITH A PLASTIC COATING                                                                                                                                                                                                               |             |                        |
| General Comments         | FRAME IS LOOSE IT MOVES        |                                                                                                                                                                                                                                                           |             |                        |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/23/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 12:00PM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name              | 25TH ST                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0584       |
| Survey Purpose           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       | CORNER OF STREET NEXT TO SIDEWALK |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:                             | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material                          | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps                        | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED BROKEN                                                                                                               |                  |               |
| General Comments         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:31PM           |               |
| Street Name                                  | 24TH PL                   |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 24TH PL NEAR VALLEY DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0589       |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>NA</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>NO CHANNEL</b>         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/23/2017                       |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:20PM           |               |
| Street Name                                   | 24TH PL                         |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT              |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | ON 24TH PL JUST BELOW VALLEY DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0589A      |
|                                               |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                               |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          | <b>ROOTS</b>                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                        | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                      | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |
|----------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |
| Inspection Date:                             | 3/23/2017                |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 12:36PM       |
| Street Name                                  | 24TH ST                  |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA       |
| Survey Purpose                               | ROUTINE ASSESSMENT       |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134   |
| Location Comments:                           | ON 24TH ST NEAR POWER ST |                                                                                                                                                                                                                                                           | MH/ACCESS #:                                                                                                                  | MACP LEVEL -1 |
|                                              |                          |                                                                                                                                                                                                                                                           | Field Book Page:                                                                                                              | MH-0590       |
|                                              |                          |                                                                                                                                                                                                                                                           | CITY                                                                                                                          | N/A           |
|                                              |                          |                                                                                                                                                                                                                                                           |                                                                                                                               | HERMOSA BEACH |
|                                              |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |               |
| Location Code                                | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |               |
| Inspection Status                            | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |               |
| Access Type:                                 | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |               |
| Surface Type:                                | <b>1</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |               |
| Cover                                        | Type:                    | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |               |
|                                              | Fit:                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |               |
|                                              | Condition                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |               |
| Cover Adjustment Ring                        | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |               |
| Frame: Condition                             | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |               |
| Chimney Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |               |
| Chimney O&M Comments                         |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |
|                                              |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |
| Cone: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |               |
| Cone O&M Comment                             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |
| Wall: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |               |
| Wall O&M Comment                             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |
| Bench: Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |               |
| Bench Deffect Comments                       |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |
| Channel Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |               |
| Channel Deffect Comments                     |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |
| Steps:                                       | Material                 | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |               |
|                                              | # of Steps               | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |               |
| General Comments                             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                                           | Inspection Time:                                                                                                                                                                                                                                          | 2:00PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 24TH ST                                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0591       |
| Survey Purpose                               | ROUTINE ASSESSMENT                                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON HOME OWNERS PROPERTY ON WALKWAY NEXT TO DRIVEWAY |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>Y</b>                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>NA</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>NO CHANNEL</b>                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                          | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                             | 3/23/2017                                                                        | Inspection Time:                                                                                                                                                                                                                                          | 12:58PM                                                                                                                       | MACP LEVEL -1          |
| Street Name                                  | 24TH ST                                                                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0591A |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                           | WHERE SIDEWALK ENDS AND MEETS WITH TREE                                          |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                              |                                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                                | <b>F</b>                                                                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                            | <b>SI</b>                                                                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                        |
| Access Type:                                 | <b>AMH</b>                                                                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                                | <b>2</b>                                                                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                        | Type:                                                                            | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                              | Fit:                                                                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                              | Condition                                                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                        | <b>NA</b>                                                                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                             | <b>NA</b>                                                                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                            | <b>NA</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                         |                                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                              | <b>NA</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                             |                                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                              | <b>NA</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                             |                                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                             | <b>NA</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                       |                                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                            | <b>NA</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                     |                                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                       | Material                                                                         | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                              | # of Steps                                                                       | <b>NA</b>                                                                                                                                                                                                                                                 |                                                                                                                               |                        |
| General Comments                             | <b>CANT OPEN MH DUE TO TREE ROOTS AND BRANCHES BLOCKING IT FROM BEING OPENED</b> |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 3/23/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 12:15PM     | MACP LEVEL -1         |
| Street Name                                   | 24TH ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0593 |
| Survey Purpose                                | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | ON 24TH ST JUST BELOW VALLEY DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                                 |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                  | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>10</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>NA</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      | <b>NO CHANNEL</b>               |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>2</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>5</b>             |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                                 |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                              |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 4/3/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 11:48AM     | MACP LEVEL -1         |
| Street Name                                   | 21ST ST                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0594 |
| Survey Purpose                                | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | 21ST ST JUST BELOW VALLEY DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                              |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                  | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>10</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                              |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                              |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                              |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                              |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                              |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>2</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>5</b>          | ONE STEP IS METAL WITH A PLASTIC COATING                                                                                                                                                                                                                  |             |                       |
| General Comments                              |                              |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                 |                  |             |                       |
|--------------------|---------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/3/2017                        | Inspection Time: | 1:55PM      | MACP LEVEL -1         |
| Street Name        | 20TH ST                         | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0595 |
| Survey Purpose     | ROUTINE ASSESSMENT              | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON 20TH ST JUST BELOW VALLEY DR |                  |             | CITY: HERMOSA BEACH   |
|                    |                                 |                  |             |                       |

| OBSERVATION              | CODE TYPE                       | CODE                                                                                                                                                                                                                                                      |
|--------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |                                 |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |                                 |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                                 |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                                 |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>3</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments | <b>APPEARS TO BE NO CHANNEL</b> |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>3</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>3</b>                        | <b>3 STEPS YOU CAN SEE AND ONE LOOKS LIKE ITS MISSING DUE TO CORRSION</b>                                                                                                                                                                                 |
| General Comments         |                                 |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/3/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:19PM           |               |
| Street Name                                  | VALLEY PARK AVE                  |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT               |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON VALLEY PARK AVE BELOW 18TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0596       |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                             |                  |             |                       |
|--------------------|---------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/3/2017                                    | Inspection Time: | 2:14PM      | MACP LEVEL -1         |
| Street Name        | VALLEY PARK AVE                             | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0597 |
| Survey Purpose     | ROUTINE ASSESSMENT                          | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | INTERSECTION OF VALLEY PARK AVE AND 18TH ST |                  |             | CITY: HERMOSA BEACH   |
|                    |                                             |                  |             |                       |
|                    |                                             |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>1</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/3/2017                              |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:31PM           |               |
| Street Name                                   | VALLEY PARK AVE                       |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT                    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | ON VALLEY PARK AVE JUST ABOVE 18TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0598       |
|                                               |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                            | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/10/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 11:04AM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                  | VALLEY PARKS AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0599 |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON VALLEY PARKS AVE JUST BELOW 20TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                  | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                               | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                             | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/3/2017                                         | Inspection Time:                                                                                                                                                                                                                                          | 2:08PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 18TH ST                                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0600       |
| Survey Purpose                               | ROUTINE ASSESSMENT                               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BETWEEN VALLEY PARK AVE AND VALLEY DR ON 18TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                            | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                       | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/3/2017                        |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:02PM           |               |
| Street Name                                  | 18TH ST                         |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT              |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 18TH ST JUST BELOW VALLEY DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0601       |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                        | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                      | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                  |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |                  |                  |               |
| Inspection Date:                             | 5/30/2017             |                                                                                                                                                                                                                                                           | Inspection Time: | 1:36PM           |               |
| Street Name                                  | HERMOSA VALLEY SCHOOL |                                                                                                                                                                                                                                                           | Survey By:       | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #           | U-1209-6134      |               |
| Location Comments:                           | ON SCHOOL PROPERTY    |                                                                                                                                                                                                                                                           |                  | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                       |                                                                                                                                                                                                                                                           |                  | Field Book Page: | MH-0603       |
|                                              |                       |                                                                                                                                                                                                                                                           |                  | CITY             | N/A           |
|                                              |                       |                                                                                                                                                                                                                                                           |                  |                  | HERMOSA BEACH |
|                                              |                       |                                                                                                                                                                                                                                                           |                  |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                  |                  |               |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                  |                  |               |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                  |                  |               |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                  |                  |               |
| Surface Type:                                | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                  |                  |               |
| Cover Type:                                  | <b>5</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |                  |                  |               |
| Fit:                                         | <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |                  |                  |               |
| Condition                                    | <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |                  |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                  |                  |               |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                  |                  |               |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |                  |                  |               |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                  |                  |               |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                  |                  |               |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |                  |                  |               |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                  |                  |               |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |                  |                  |               |
| Steps: Material                              | <b>3</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |                  |                  |               |
| # of Steps                                   | <b>8</b>              | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                                                                                                                                                  |                  |                  |               |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |                  |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                          |                  |             |                       |
|--------------------|------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/16/2017                                | Inspection Time: | 2:18PM      | MACP LEVEL -1         |
| Street Name        | VALLEY DR                                | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0604 |
| Survey Purpose     | ROUTINE ASSESSMENT                       | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | FIRST MH JUST BELOW 18TH ST ON VALLEY DR |                  |             | CITY: HERMOSA BEACH   |
|                    |                                          |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>1</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>5</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/16/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:29PM           |               |
| Street Name                                  | VALLEY DR                         |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | WHERE VALLEY DR AND PIER AVE MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0606       |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>12</b>                                                                                                                                                                                                                                                 | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |         |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|--|------|------------------|---------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |         |
| Inspection Date:                             | 5/31/2017          |                                                                                                                                                                                                                                                           |                                                                                                                               | Inspection Time: | 2:23AM      |  |      | MACP LEVEL -1    |         |
| Street Name                                  | VALLEY DR          |                                                                                                                                                                                                                                                           |                                                                                                                               | Survey By:       | A.SOUZA     |  |      | MH/ACCESS #:     | MH-0607 |
| Survey Purpose                               | ROUTINE ASSESSMENT |                                                                                                                                                                                                                                                           |                                                                                                                               | MACP #           | U-1209-6134 |  |      | Field Book Page: | N/A     |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  | CITY | HERMOSA BEACH    |         |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |         |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |             |  |      |                  |         |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |             |  |      |                  |         |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |             |  |      |                  |         |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |             |  |      |                  |         |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |             |  |      |                  |         |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |             |  |      |                  |         |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |             |  |      |                  |         |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |             |  |      |                  |         |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |             |  |      |                  |         |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |             |  |      |                  |         |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |         |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |         |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |         |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |         |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |         |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |         |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |         |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |         |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |         |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |         |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |             |  |      |                  |         |
|                                              | # of Steps         | <b>7</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |             |  |      |                  |         |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |         |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 2:28AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | VALLEY DR          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0608       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>5</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 3:26AM      | MACP LEVEL -1         |
| Street Name              | VALLEY DR           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0609 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>4</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 2:33AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | VALLEY DR          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0609A      |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>NA</b>          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>NA</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| General Comments         | MH LID IS STUCK    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 3:19AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | VALLEY DR          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0610       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 3:13AM      | MACP LEVEL -1         |
| Street Name              | 8TH ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0611 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:42PM      | MACP LEVEL -1         |
| Street Name              | 8TH ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0612 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>D</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    | <b>HOLE</b>                                                                                                                                                                                                                                               |             |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                       |                  |             |                       |
|--------------------|-----------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/25/2017             | Inspection Time: | 1:52PM      | MACP LEVEL -1         |
| Street Name        | PACIFIC COAST HIGHWAY | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0613 |
| Survey Purpose     | ROUTINE ASSESSMENT    | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: |                       |                  |             | CITY: HERMOSA BEACH   |
|                    |                       |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>4</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017             | Inspection Time:                                                                                                                                                                                                                                          | 3:03AM      | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0614 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>3</b>   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                  |                  |             |                       |
|--------------------|----------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/17/2017                        | Inspection Time: | 12:00PM     | MACP LEVEL -1         |
| Street Name        | PACIFIC COAST HIGHWAY            | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0615 |
| Survey Purpose     | ROUTINE ASSESSMENT               | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON PCH BETWEEN 8TH ST AND 8TH PL |                  |             | CITY: HERMOSA BEACH   |
|                    |                                  |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>2</b>   | <b>MISSING CORRODED OFF</b>                                                                                                                                                                                                                               |
| General Comments         |            |                                                                                                                                                                                                                                                           |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 11:36AM     | MACP LEVEL -1         |
| Street Name              | AVIATION BLVD       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0629 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>2</b> | <b>CORROSION</b>                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 4/11/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 12:40PM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                   | PROSPECT AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0631 |
| Survey Purpose                                | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | WHERE 11TH PL AND PROSPECT AVE MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>3</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          | <b>NO CHIMNEY</b>                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 11:31AM     | MACP LEVEL -1         |
| Street Name                                  | PROSPECT AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0632 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | CORNER OF BUILDING  |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>D</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/11/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 12:55PM     | MACP LEVEL -1         |
| Street Name                                  | PROSPECT AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0633 |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | WHERE PROSPECT AVE AND 11TH ST MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/11/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 10:30AM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                  | PROSPECT AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0634 |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | WHERE PROSPECT AVE AND 10TH ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>3</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         | NO CHIMNEY                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>2</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                     | CRACKS                                                                                                                                                                                                                                                    |                                                                                                                               |                       |
| Wall: Condition                              | <b>2</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                     | CRACKS                                                                                                                                                                                                                                                    |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                      |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/11/2017                                            | Inspection Time:                                                                                                                                                                                                                                          | 10:23AM     | MACP LEVEL -1         |
| Street Name                                  | 10TH ST                                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0635 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | MIDDLE OF 10TH ST BETWEEN HARPER AVE AND PROPECT AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                         |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                         |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/11/2017                                               | Inspection Time:                                                                                                                                                                                                                                          | 12:50PM     | MACP LEVEL -1         |
| Street Name                                  | 11TH ST                                                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0637 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | MIDDLE OF 11TH ST BETWEEN PROSPECT AVE AND HARPER AVE.  |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                         |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                        | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                                      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                         |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                         |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                         |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                         |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                                     |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             | LOOKS LIKE THERE WAS A REPAIR DONE IN THE MH WITH BRICK |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/11/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 12:46PM     | MACP LEVEL -1         |
| Street Name                                  | 11TH ST                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0638 |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 11TH ST WHERE 11TH MEET HARPER AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>1</b>                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                       |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/11/2017                                             | Inspection Time:                                                                                                                                                                                                                                          | 12:34PM     | MACP LEVEL -1         |
| Street Name                                  | 11TH PL                                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0639 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | MIDDLE OF 11TH PL BETWEEN PROSPECT AVE AND HARPER AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>1</b>                                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/11/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 9:52AM      | MACP LEVEL -1         |
| Street Name                                  | 10TH ST                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0643 |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 10TH ST JUST BEFORE PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                            |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>1</b>        |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                                              |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:59AM           |               |
| Street Name                                  | 10TH ST                                                |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                     |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 10TH ST BETWEEN PCH AND OCEAN DR CLOSER TO OCEAN DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0644       |
|                                              |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                  | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                               | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                             | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                         |                  |             |                       |
|--------------------|-----------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/11/2017                               | Inspection Time: | 10:05AM     | MACP LEVEL -1         |
| Street Name        | 10TH ST                                 | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0645 |
| Survey Purpose     | ROUTINE ASSESSMENT                      | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON 10TH BETWEEN OCEAN DR AND OWOSSO AVE |                  |             | CITY: HERMOSA BEACH   |
|                    |                                         |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>4</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                        |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 10:12AM          |               |
| Street Name                                  | 10TH ST                          |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT               |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | WHERE 10TH AND PROSPECT AVE MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0646       |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017              |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:09PM           |               |
| Street Name                                  | 9TH ST                 |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT     |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 9TH JUST BEFORE PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0648       |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CANT OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                  | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material               | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps             | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/11/2017                                      | Inspection Time:                                                                                                                                                                                                                                          | 1:13PM      | MACP LEVEL -1          |
| Street Name                                  | 9TH ST                                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0648A |
| Survey Purpose                               | ROUTINE ASSESSMENT                             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 9TH ST SECOND MH FROM OCEAN DR GOING TO PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                                |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                                |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                                |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                                |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>3</b>                              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>2</b>                            | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                        |
| General Comments                             |                                                |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                              |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                              |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/11/2017                                    | Inspection Time:                                                                                                                                                                                                                                          | 1:20PM      | MACP LEVEL -1         |
| Street Name                                  | 9TH ST                                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0649 |
| Survey Purpose                               | ROUTINE ASSESSMENT                           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 9TH ST NEXT TO OCEAN DR GOING TOWARDS PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                              |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                             | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CANT OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                              |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                              |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                              |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                              |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                              |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>2</b>                          | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments                             |                                              |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 1:26PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 9TH ST                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0650       |
| Survey Purpose                               | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 9TH ST BETWEEN OCEAN DR AND OWOSSO AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 1:43PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 9TH                                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0651       |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 9TH ST WHERE 9TH MEET PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                              | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                            | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 1:50PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | OCEAN DR                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0653       |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON OCEAN DR BETWEEN 9TH ST AND 8TH PL |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                              | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                            | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 2:19PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | OCEAN DR                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0656A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON OCEAN DR BETWEEN 8TH PL AND 8TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                              | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                            | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                   |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 7:32AM      | MACP LEVEL -1         |
| Street Name              | 6TH ST                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0662 |
| Survey Purpose           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON 6TH ST JUST BEFORE PROPECT AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                          | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                   |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/14/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:41PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | 6TH ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0662A      |
| Survey Purpose                                | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | ON 6TH AND PINE ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps         | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                     |                  |               |
| General Comments                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017                                                               |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:36AM           |               |
| Street Name                                  | ALLEY                                                                   |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                      |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | A SMALL STREET BETWEEN 6TH AND 7TH ST OFF OF 6TH ST BEFORE PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0663       |
|                                              |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                                | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                              | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                        |                  |             |                       |
|--------------------|----------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/17/2017                              | Inspection Time: | 3:09PM      | MACP LEVEL -1         |
| Street Name        | 7TH ST                                 | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0667 |
| Survey Purpose     | ROUTINE ASSESSMENT                     | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON 7TH ST BETWEEN PROSPECT AVE AND PCH |                  |             | CITY: HERMOSA BEACH   |
|                    |                                        |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>Y</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>2</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                  |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:45PM           |               |
| Street Name                                  | 7TH ST                     |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT         |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 7TH ST AND PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0669       |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                      | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                   | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                 | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED MISSING                                                                                                              |                  |               |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                      |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/11/2017            | Inspection Time:                                                                                                                                                                                                                                          | 2:54PM      | MACP LEVEL -1         |
| Street Name              | 8TH ST               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0670 |
| Survey Purpose           | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | 8TH AND PROSPECT AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                      |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>             | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017          |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:39PM           |               |
| Street Name                                  | 9TH ST             |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | PROSPECT AND 9TH   |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0671       |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/11/2017                                        | Inspection Time:                                                                                                                                                                                                                                          | 2:46PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | 9TH ST                                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0673       |
| Survey Purpose                                | ROUTINE ASSESSMENT                               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | MIDDLE OF 9TH ST BETWEEN PROSPECT AND HARPER AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>                                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                            | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                       | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                              |                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                                                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:58PM           |               |
| Street Name                                  | 8TH ST                                                            |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 8TH ST BETWEEN PROSPECT AND HARPER AVE, CLOSER TO PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0675       |
|                                              |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                                                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                          | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                        | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                                                           |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 3:02PM           |               |
| Street Name                                  | 8TH ST                                                              |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                  |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 8TH ST BETWEEN PROSPECT AVE AND HARPER AVE, CLOSER TO HARPER AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0676       |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                          | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 1:29PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 7TH ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0677       |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 7TH ST EAST OF PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED AND MISSING                                                                                                          |                  |               |
| General Comments                             | FRAME IS OFFSET                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/12/2017                                      | Inspection Time:                                                                                                                                                                                                                                          | 1:33PM      | MACP LEVEL -1         |
| Street Name                                  | 7TH ST                                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0678 |
| Survey Purpose                               | ROUTINE ASSESSMENT                             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 7TH ST BETWEEN PROSPECT AVE AND GOODMAN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>Y</b>                                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>3</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>3</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                            |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             | FRAME IS OFFSET. ON DRIVEWAY                   |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/12/2017               | Inspection Time:                                                                                                                                                                                                                                          | 1:51PM      | MACP LEVEL -1        |
| Street Name                                  | PROSPECT AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0679 |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | PROSPECT AVE AND 7TH PL |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                         |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>F</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                         |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>2</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                         | ROOTS                                                                                                                                                                                                                                                     |             |                      |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>2</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                         | ERODED                                                                                                                                                                                                                                                    |             |                      |
| Channel Condition                            | <b>2</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                         | NO CHANNEL, DOESN'T FLOW CORRECTLY                                                                                                                                                                                                                        |             |                      |
| Steps:                                       | Material <b>2</b>       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>1</b>     | CORRODED                                                                                                                                                                                                                                                  |             |                      |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                            |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 4/12/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 1:56PM      | MACP LEVEL -1         |
| Street Name                                   | 7TH PL                                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0680 |
| Survey Purpose                                | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | ON 7TH PL WHERE 7TH AND HOLLOWELL AVE MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                                            |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>F</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                  | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>2</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>10</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>                              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>                         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>2</b>                          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>1</b>                        | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                                            |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 2:03PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 7TH PL                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0681       |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | AT 7TH PL AND REYNOLDS LN |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                           | CRACKS                                                                                                                                                                                                                                                    |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017              |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:07PM           |               |
| Street Name                                  | 6TH ST                 |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT     |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | 6TH ST AND REYNOLDS LN |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0682       |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                  | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material               | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps             | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                          |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/12/2017                | Inspection Time:                                                                                                                                                                                                                                          | 2:11PM      | MACP LEVEL -1         |
| Street Name                                  | 6TH ST                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0683 |
| Survey Purpose                               | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | 6TH ST AND HOLLOWELL AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                          |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>3</b>      |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                          |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:32PM           |               |
| Street Name                                  | PROSPECT AVE                      |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON PROSPECT AVE JUST BELOW 8TH PL |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0685       |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>Y</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:28PM           |               |
| Street Name                                  | PROSPECT AVE                      |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON PROSPECT AVE JUST BELOW 9TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0686       |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017             | Inspection Time:                                                                                                                                                                                                                                          | 2:16PM      | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0687 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>4</b>   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                       |                  |             |                        |
|--------------------|-----------------------|------------------|-------------|------------------------|
| Inspection Date:   | 5/25/2017             | Inspection Time: | 2:07PM      | MACP LEVEL -1          |
| Street Name        | PACIFIC COAST HIGHWAY | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0687A |
| Survey Purpose     | ROUTINE ASSESSMENT    | MACP #           | U-1209-6134 | Field Book Page: N/A   |
| Location Comments: |                       |                  |             | CITY: HERMOSA BEACH    |
|                    |                       |                  |             |                        |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>3</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 5/25/2017             | Inspection Time:                                                                                                                                                                                                                                          | 2:03PM      | MACP LEVEL -1          |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0687B |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                          |                       |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code            | <b>F</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                    | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                   | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                          | # of Steps <b>3</b>   |                                                                                                                                                                                                                                                           |             |                        |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                        |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 5/25/2017             | Inspection Time:                                                                                                                                                                                                                                          | 2:00PM      | MACP LEVEL -1          |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0687C |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                          |                       |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                    | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                   | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                          | # of Steps <b>3</b>   |                                                                                                                                                                                                                                                           |             |                        |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/25/2017          | Inspection Time:                                                                                                                                                                                                                                          | 5:47PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | ARDMORE AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0688       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>2</b>                                                                                                                                                                                                                                                  | CORROSION MISSING                                                                                                             |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/14/2017                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:31AM          |               |
| Street Name                                   | 8TH PL                    |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | ON 8TH PL JUST BEFORE PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0688A      |
|                                               |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                               |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                  | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: INGLEWOOD |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
|------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM        |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                         | 4/14/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 11:25AM                                                                                                                       | MACP LEVEL -1          |
| Street Name                              | 8TH PL                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0688B |
| Survey Purpose                           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                       | ON 8TH PL JUST BEFORE ARDMORE AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                          |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                       | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                            | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                        |
| Access Type:                             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                            | <b>2</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                    | Type:                             | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                          | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                          | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                        | <b>3</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                     | <b>NO CHIMNEY</b>                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                   |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                 |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                   | Material                          | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                          | # of Steps                        | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                        |
| General Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 4/14/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 11:23AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name              | 8TH PL                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0688C      |
| Survey Purpose           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       | ON 8TH PL JUST BEFORE ARDMORE AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>2</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:                             | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>3</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     | <b>NO CHIMNEY</b>                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material                          | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps                        | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                           |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 4/14/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 11:33AM     | MACP LEVEL -1          |
| Street Name              | 8TH PL                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0688D |
| Survey Purpose           | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | ON 8TH PL JUST BEFORE PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                           |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                        |
| Access Type:             | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>5</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                           |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                           |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                           |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>NA</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                        |
| General Comments         |                           |                                                                                                                                                                                                                                                           |             |                        |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:42AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | ARDMORE AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0689       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    | <b>ROOTS</b>                                                                                                                                                                                                                                              |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:38AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | ARDMORE AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0690       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:28AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | ARDMORE AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0691       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:24AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | ARDMORE AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0692       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    |                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                  |                  |               |
| Frame: Condition         |                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                      |                  |               |
| Chimney Condition        |                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          |                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          |                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         |                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        |                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>3</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/17/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 2:25PM      | MACP LEVEL -1         |
| Street Name              | 11TH PL                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0693 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON 11TH PL NEAR PCH            |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     | <b>PIECES OF BRICK MISSING</b> |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                       | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/17/2017                        |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:30PM           |               |
| Street Name                                   | 11TH PL                          |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT               |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | ON 11TH PL SECOND MH WEST OF PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0693B      |
|                                               |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                               |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>Y</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                            | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                         | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                       | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:58AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | 11TH ST            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0694       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments | <b>NO CHANNEL</b>  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                             |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/17/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 2:37PM      | MACP LEVEL -1         |
| Street Name              | 10TH ST                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0695 |
| Survey Purpose           | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON 10TH ST JUST WEST OF PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                             |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                    | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                    | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                             |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                             |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                             |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                             |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                             |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                    | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                             |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017                  |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:44PM           |               |
| Street Name                                  | 9TH ST                     |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT         |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 9TH ST JUST WEST OF PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0696       |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                      | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                   | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                 | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/25/2017           | Inspection Time:                                                                                                                                                                                                                                          | 1:25PM      | MACP LEVEL -1         |
| Street Name                                  | ARDMORE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0697 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/25/2017           | Inspection Time:                                                                                                                                                                                                                                          | 1:13PM      | MACP LEVEL -1         |
| Street Name              | ARDMORE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0698 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>3</b> | <b>CORROSION</b>                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: INGLEWOOD |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM        |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                         | 4/17/2017                                           | Inspection Time:                                                                                                                                                                                                                                          | 2:57PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                              | 6TH ST                                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0699       |
| Survey Purpose                           | ROUTINE ASSESSMENT                                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                       | ON 6TH ST BETWEEN ARDMORE AVE AND PCH CLOSER TO PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                          |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                       | <b>CODE TYPE</b>                                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                            | <b>Y</b>                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                        | <b>SI</b>                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                             | <b>AMH</b>                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                            | <b>1</b>                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                    | Type:                                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                          | Fit:                                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                          | Condition                                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                    | <b>NA</b>                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                         | <b>1</b>                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                        | <b>3</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                     | <b>NO CHIMNEY</b>                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                          | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                         |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                          | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                         |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                         | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                   |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                        | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                 |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                   | Material                                            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                          | # of Steps                                          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                         |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 2:50PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 7TH ST                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0700       |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | END OF 7TH ST EAST OF ARDMORE AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 3:22AM      | MACP LEVEL -1         |
| Street Name                                  | VALLEY DR           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0701 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/17/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 10:24AM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                  | 8TH ST                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0702 |
| Survey Purpose                               | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON 8TH ST BETWEEN BARD ST AND CYPRESS AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>F</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             | FRAME IS OFFSET                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                             |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                             |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/12/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 7:41AM      | MACP LEVEL -1          |
| Street Name                                  | BARD ST                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0703A |
| Survey Purpose                               | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | TOP OF BARD ST ABOVE 8TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                             |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>Y</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                        |
| Access Type:                                 | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>2</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                             |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                             |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                             |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                             |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                             |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>         |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             | ON DRIVEWAY                 |                                                                                                                                                                                                                                                           |             |                        |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 7:26AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | CYPRESS AVE                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0704       |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | TOP OF CYPRESS AVE NEAR CLARK STADIUM |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>B</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                              | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                            | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:30AM           |               |
| Street Name                                  | CYPRESS AVE                       |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | END OF CYPRESS NEAR CLARK STADIUM |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0705       |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                  |                  |             |                       |
|--------------------|----------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/17/2017                        | Inspection Time: | 10:28AM     | MACP LEVEL -1         |
| Street Name        | CYPRESS AVE                      | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0706 |
| Survey Purpose     | ROUTINE ASSESSMENT               | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON CYPRESS AVE JUST ABOVE 8TH ST |                  |             | CITY: HERMOSA BEACH   |
|                    |                                  |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>1</b>   | <b>CORRODED</b>                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                    |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:37AM           |               |
| Street Name                                  | BARD ST                      |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT           |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON BARD ST JUST ABOVE 8TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0707       |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                        | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                     | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                   | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/10/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 3:10PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 11TH ST                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0708 |
| Survey Purpose                               | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON 11TH ST NEAR CYPRESS AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                       | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                    | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                  | <b>6</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                       |
| General Comments                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/10/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 3:16PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 11TH ST                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0709 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | WHERE CYPRESS AVE AND 11TH ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                         | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017               | Inspection Time:                                                                                                                                                                                                                                          | 3:19PM      | MACP LEVEL -1         |
| Street Name                                  | 11TH ST                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0710 |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 11TH ST NEAR LOMA DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                         |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                         |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                         |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                         |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>     |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017           | Inspection Time:                                                                                                                                                                                                                                          | 2:41AM      | MACP LEVEL -1         |
| Street Name              | BARD ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0711 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>6</b> | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 2:44AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BARD ST            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0712       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 2:47AM      | MACP LEVEL -1         |
| Street Name              | PIER AVE           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0713 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>4</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                          |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017                | Inspection Time:                                                                                                                                                                                                                                          | 2:51AM      | MACP LEVEL -1         |
| Street Name              | PIER AVE                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0714 |
| Survey Purpose           | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | PIER AVE AND CYPRESS AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                          |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>                 | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                          |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                      |                  |             |                  |               |
|--------------------|----------------------|------------------|-------------|------------------|---------------|
| Inspection Date:   | 5/31/2017            | Inspection Time: | 2:59AM      |                  | MACP LEVEL -1 |
| Street Name        | PIER AVE             | Survey By:       | A.SOUZA     | MH/ACCESS #.:    | MH-0715       |
| Survey Purpose     | ROUTINE ASSESSMENT   | MACP #           | U-1209-6134 | Field Book Page: | N/A           |
| Location Comments: | PIER AVE AND LOMA DR |                  |             | CITY             | HERMOSA BEACH |
|                    |                      |                  |             |                  |               |
|                    |                      |                  |             |                  |               |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>2</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 4/11/2017          | Inspection Time:                                                                                                                                                                                                                                          | 7:35AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              |                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | 0716X         |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>F</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 7:41AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0717       |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON LOMA DR JUST ABOVE 11TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | NO CHIMNEY                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | CRACK                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>2</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             | CRACK                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | ERODED                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 3:29PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | CYPRESS AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0718       |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON CYPRESS AVE JUST BELOW PIER AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    | <b>ROOTS</b>                                                                                                                                                                                                                                              |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED MISSING PART OF STEP</b>                                                                                          |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 3:25PM      | MACP LEVEL -1         |
| Street Name                                  | CYPRESS AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0719 |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON CYPRESS AVE JUST ABOVE 11TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>4</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>2</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       | <b>ERODED</b>                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>2</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     | <b>ERODED</b>                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>               |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 3:32PM      | MACP LEVEL -1         |
| Street Name                                  | CYPRESS AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0720 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON CYPRESS AVE JUST BELOW PIER AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>1</b>                | CORRODED PART MISSING                                                                                                                                                                                                                                     |             |                       |
| General Comments                             | CONCRETE AND ASPHALT FOR SURFACE   |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/4/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 2:07PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | ARDMORE AVE                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0722       |
| Survey Purpose                               | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | INTERSECTION OF ARDMORE AVE AND 16TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                              | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/4/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 2:38PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | ARDMORE AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | 723           |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON ARDMORE JUST ABOVE 16TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/4/2017                                     | Inspection Time:                                                                                                                                                                                                                                          | 2:44PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | ARDMORE AVE                                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0724       |
| Survey Purpose                               | ROUTINE ASSESSMENT                           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON ARDMORE JUST BELOW AN ALLEY BELOW 21ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                        | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                     | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                   | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/4/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 2:50PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | ARDMORE AVE                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0725       |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | JUST BELOW 21ST ST ACROSS FROM ALLEY |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                             | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                           | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                         |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/4/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 2:56PM      | MACP LEVEL -1         |
| Street Name                                  | ARDMORE AVE                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0726 |
| Survey Purpose                               | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF ARDMORE AVE AND 21ST ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                         |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                        | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>2</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             | <b>CRACK</b>                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                     |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                         |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 4:23AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | ARDMORE AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0727       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 4:29AM      | MACP LEVEL -1         |
| Street Name                                  | ARDMORE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0728 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>2</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     | <b>EROSION</b>      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 4:32AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | ARDMORE AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0729       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 4:38AM      | MACP LEVEL -1         |
| Street Name                                  | ARDMORE AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0730 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>1</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                           |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/16/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 1:32PM      | MACP LEVEL -1         |
| Street Name              | ARDMORE AVE                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0731 |
| Survey Purpose           | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF PORTER LN AND ARDMORE AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>1</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                           | CRACK                                                                                                                                                                                                                                                     |             |                       |
| Wall: Condition          | <b>2</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                           | CRACK                                                                                                                                                                                                                                                     |             |                       |
| Bench: Condition         | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/27/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:30AM          |               |
| Street Name                                  | PORTER LN                         |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | MIDDLE OF PORTER LN ABOVE ARDMORE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0732       |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>4</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/27/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 11:41AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | PORTER LN                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0732A      |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | TOP OF PORTER LN JUST BELOW PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                           | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                        | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                      | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                     |                  |               |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                    |                  |             |                  |               |
|--------------------|--------------------|------------------|-------------|------------------|---------------|
| Inspection Date:   | 3/27/2017          | Inspection Time: | 11:47AM     |                  | MACP LEVEL -1 |
| Street Name        | 25TH ST            | Survey By:       | A.SOUZA     | MH/ACCESS #:     | MH-0734       |
| Survey Purpose     | ROUTINE ASSESSMENT | MACP #           | U-1209-6134 | Field Book Page: | N/A           |
| Location Comments: | TOP OF 25TH ST     |                  |             | CITY             | HERMOSA BEACH |
|                    |                    |                  |             |                  |               |
|                    |                    |                  |             |                  |               |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>4</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/3/2017                               | Inspection Time:                                                                                                                                                                                                                                          | 9:18AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 24TH PL                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0735       |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BETWEEN ARDMORE AVE AND PCH ON 24TH PL |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                  | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                               | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                             | <b>0</b>                                                                                                                                                                                                                                                  | NO STEPS                                                                                                                      |                  |               |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                               |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 11:19PM     | MACP LEVEL -1         |
| Street Name              | 24TH PL                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0736 |
| Survey Purpose           | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                               |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                               |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                               |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                               |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                               |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                               |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>3</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>NO CHANNEL TOP OF LINE</b> |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>NA</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                               |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/3/2017                                      | Inspection Time:                                                                                                                                                                                                                                          | 9:30AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 24TH ST                                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0737       |
| Survey Purpose                               | ROUTINE ASSESSMENT                            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF 24TH ST BETWEEN PCH AND ARDMORE AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                         | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | LIGHT ROOTS                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                    | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/3/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 9:36AM      | MACP LEVEL -1         |
| Street Name                                  | 24TH ST                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0738 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 24TH ST JUST BELOW PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>3</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>       | <b>NO STEPS</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/3/2017            | Inspection Time:                                                                                                                                                                                                                                          | 10:49AM     | MACP LEVEL -1         |
| Street Name                                  | 21ST ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0739 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | 21ST AND AVA AVE    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                       |                  |             |                       |
|--------------------|-----------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 58/31/17              | Inspection Time: | 11:44PM     | MACP LEVEL -1         |
| Street Name        | PACIFIC COAST HIGHWAY | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0740 |
| Survey Purpose     | ROUTINE ASSESSMENT    | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | PCH AND 21ST ST       |                  |             | CITY: HERMOSA BEACH   |
|                    |                       |                  |             |                       |

| OBSERVATION              | CODE TYPE                      | CODE                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         | UNKNOWN OBJECT IN HOLE OF WALL |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>1</b>                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>1</b>                       | CORRODED OFF MISSING                                                                                                                                                                                                                                      |
| General Comments         |                                |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|--|------------------|---------------|
| Inspection Date:         | 5/31/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:23PM     |  | MACP LEVEL -1    |               |
| Street Name              | PACIFIC COAST HIGHWAY |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA     |  | MH/ACCESS #:     | MH-0741       |
| Survey Purpose           | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134 |  | Field Book Page: | N/A           |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  | CITY             | HERMOSA BEACH |
|                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
|                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |             |  |                  |               |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |             |  |                  |               |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |             |  |                  |               |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |             |  |                  |               |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |             |  |                  |               |
| Cover                    | Type:                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |             |  |                  |               |
|                          | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |             |  |                  |               |
|                          | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |             |  |                  |               |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |             |  |                  |               |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |             |  |                  |               |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |             |  |                  |               |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |
| Steps:                   | Material              | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |             |  |                  |               |
|                          | # of Steps            | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |             |  |                  |               |
| General Comments         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |             |  |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 11:14PM     | MACP LEVEL -1         |
| Street Name                                  | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0742 |
| Survey Purpose                               | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | PCH AND 24TH PL       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017             | Inspection Time:                                                                                                                                                                                                                                          | 4:46AM      | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0743 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>3</b>   | <b>CORROSION</b>                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/3/2017             | Inspection Time:                                                                                                                                                                                                                                          | 11:04AM     | MACP LEVEL -1        |
| Street Name                                  | AVA AVE              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0744 |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | MIDDLE OF AVA AVE ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                      |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                      |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>2</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             | LIGHT ROOTS          |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                      |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                      |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>  | NO STEPS                                                                                                                                                                                                                                                  |             |                      |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |             |                      |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/3/2017                                |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:57AM           |               |
| Street Name                                  | SPRINGFIELD AVE                         |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                      |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | MIDDLE OF SPRINGFIELD AVE BELOW 21ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0745       |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                              | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |             |                      |
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| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/3/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 10:06AM     | MACP LEVEL -1        |
| Street Name                                  | ALLEY                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0746 |
| Survey Purpose                               | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ALLEY OFF OF SPRINGFIELD AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                              |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>H</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>2</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         | <b>ROOTS</b>                 |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>2</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             | <b>ROOTS</b>                 |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>2</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>1</b>          | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Inspection Date:                             | 4/3/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 9:52AM                                                                                                                        | MACP LEVEL -1        |
| Street Name                                  | SPRINGFIELD AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #: MH-0747 |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A |
| Location Comments:                           | ON SPRINGFIELD AVE JUST BELOW 21ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH  |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                      |
| Location Code                                | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                      |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                      |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                      |
| Surface Type:                                | <b>2</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                      |
| Cover                                        | Type:                                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                      |
|                                              | Fit:                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                      |
|                                              | Condition                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                      |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                      |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                      |
| Chimney Condition                            | <b>NA</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Cone: Condition                              | <b>NA</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Cone O&M Comment                             | <b>NO CONE</b>                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Channel Condition                            | <b>NA</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Channel Deffect Comments                     | <b>NO CHANNEL</b>                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Steps:                                       | Material                              | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                      |
|                                              | # of Steps                            | <b>0</b>                                                                                                                                                                                                                                                  | <b>NO STEPS</b>                                                                                                               |                      |
| General Comments                             | <b>TOP OF LINE</b>                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/3/2017                                                           | Inspection Time:                                                                                                                                                                                                                                          | 10:41AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | SPRINGFIELD AVE                                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0748       |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | TOWARDS THE END OF THE CULDISAC ON SPRINGFIELD AVE BEFORE CLEANOUT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                         | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Inspection Date:                             | 4/3/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 10:57AM                                                                                                                       | MACP LEVEL -1        |
| Street Name                                  | AVA AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #: MH-0749 |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A |
| Location Comments:                           | ON AVA AVE JUST BELOW 21ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH  |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                      |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                      |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                      |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                      |
| Surface Type:                                | <b>2</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                      |
| Cover                                        | Type:                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                      |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                      |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                      |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                      |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                      |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Steps:                                       | Material                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                      |
|                                              | # of Steps                    | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                      |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/3/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 11:17AM     | MACP LEVEL -1        |
| Street Name                                  | AVA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0750 |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | END OF THE CULDISAC ON AVA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>3</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>              |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             | <b>NO CONE</b>                 |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>            | <b>NO STEPS</b>                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |             |                      |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017           | Inspection Time:                                                                                                                                                                                                                                          | 1:07AM      | MACP LEVEL -1         |
| Street Name              | 16TH ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0751 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     | <b>NO CHIMNEY</b>   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                       |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                       |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 5/31/2017                                             | Inspection Time:                                                                                                                                                                                                                                          | 1:05AM      | MACP LEVEL -1          |
| Street Name                                  | 16TH ST                                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0751A |
| Survey Purpose                               | ROUTINE ASSESSMENT                                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           |                                                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                                       |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>                                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>3</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                                     |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>NA</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                                       |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>NA</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                                       |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>NA</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                                       |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>NA</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                                       |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>                                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps                                            |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             | <b>SMALL HOLE TO SEWER LINE COVERED WITH CONCRETE</b> |                                                                                                                                                                                                                                                           |             |                        |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017           | Inspection Time:                                                                                                                                                                                                                                          | 12:29AM     | MACP LEVEL -1         |
| Street Name              |                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0752 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>2</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   | <b>ERODED</b>       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>1</b> | <b>CORRODED OFF</b>                                                                                                                                                                                                                                       |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                    |                  |             |                  |               |
|--------------------|--------------------|------------------|-------------|------------------|---------------|
| Inspection Date:   | 5/31/2017          | Inspection Time: | 12:57AM     |                  | MACP LEVEL -1 |
| Street Name        | 16TH ST            | Survey By:       | A.SOUZA     | MH/ACCESS #:     | MH-0752A      |
| Survey Purpose     | ROUTINE ASSESSMENT | MACP #           | U-1209-6134 | Field Book Page: | N/A           |
| Location Comments: |                    |                  |             | CITY             | HERMOSA BEACH |
|                    |                    |                  |             |                  |               |
|                    |                    |                  |             |                  |               |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>4</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/31/2017          | Inspection Time:                                                                                                                                                                                                                                          | 1:01AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | 16TH ST            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0752B      |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>3</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     | <b>NO CHIMNEY</b>  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>3</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         | <b>NO CONE</b>     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |               |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|
| Inspection Date:         | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 12:32AM       | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA       | MH/ACCESS #.: MH-0753 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134   | Field Book Page: N/A  |
| Location Comments:       | PCH AND 16TH          | CITY                                                                                                                                                                                                                                                      | HERMOSA BEACH |                       |
| <b>OBSERVATION</b>       |                       |                                                                                                                                                                                                                                                           |               |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |               |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |               |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |               |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |               |                       |
| Cover Type:              | <b>5</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |               |                       |
| Fit:                     | <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |               |                       |
| Condition                | <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |               |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |               |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |               |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |               |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |               |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |               |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |               |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |               |                       |
| Steps: Material          | <b>2</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |               |                       |
| # of Steps               | <b>1</b>              | <b>CORRODED</b>                                                                                                                                                                                                                                           |               |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/31/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 12:36AM          |               |
| Street Name                                  | PACIFIC COAST HIGHWAY |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | PCH AND 17TH ST       |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0754       |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps            | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED MISSING                                                                                                              |                  |               |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 12:40AM     | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0755 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>              | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 12:45AM     | MACP LEVEL -1         |
| Street Name                                  | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0756 |
| Survey Purpose                               | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | PCH AND 19TH ST       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 5/31/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:49PM          |               |
| Street Name                                   | PACIFIC COAST HIGHWAY |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | PCH AND 21ST ST       |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0757       |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material              | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps            | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 11:27PM     | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0758 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMP HOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                            |             |                       |
|                          | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>2</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   | <b>ERODED</b>         |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>2</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>ERODED</b>         |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>NA</b>    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>0</b>   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 11:31PM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0759       |
| Survey Purpose                               | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps            | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/6/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 1:03PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 21ST ST                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0761 |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON 21ST ST NEAR BORDEN AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                      | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                   | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                 | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/6/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 1:08PM      | MACP LEVEL -1         |
| Street Name                                  | 21ST ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0762 |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF 21ST AND BORDEN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017              |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:21PM           |               |
| Street Name                                  | 21ST ST               |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | RHODES ST AND 21ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0763       |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material              | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps            | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 4/6/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 1:31pm                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | 21ST ST                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-0764       |
| Survey Purpose           | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       | 21ST ST AND HILLCREST DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>1</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:                    | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material                 | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps               | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 1:38PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 21ST ST                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0764A      |
| Survey Purpose                               | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | 21ST ST AND HILLCREST DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                    | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                 | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps               | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/6/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 11:31AM     | MACP LEVEL -1          |
| Street Name                                  | HILLCREST DR                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0764B |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | END OF CULDISAC ON HILLCREST DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                 |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>2</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>1</b>             |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |             |                        |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                              |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 4/6/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 11:28AM     | MACP LEVEL -1          |
| Street Name              | HILLCREST DR                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0764C |
| Survey Purpose           | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | ON HILLCREST DR MIDDLE OF ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                              |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>10</b>                    | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                              |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                              |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                              |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                              |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                              |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>2</b>                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>1</b>                     |                                                                                                                                                                                                                                                           |             |                        |
| General Comments         |                              |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/6/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 1:44PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 21ST ST                                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0765 |
| Survey Purpose                               | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON 21ST ST NEAR PROSPECT AVE             |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                    | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>2</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         | PIECES OF WOOD BETWEEN FRAME AND CHIMNEY |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                 | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                               | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/30/2017            | Inspection Time:                                                                                                                                                                                                                                          | 10:36AM     | MACP LEVEL -1         |
| Street Name                                  | PROSPECT AVE         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0766 |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                      |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>2</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     | <b>EROSION</b>       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>12</b> | <b>I BELIEVE THERE METAL WITH A PLASTIC COATING</b>                                                                                                                                                                                                       |             |                       |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017               | Inspection Time:                                                                                                                                                                                                                                          | 10:31AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | 21ST ST                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0767       |
| Survey Purpose                               | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | 21ST ST AND HARPER AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                  | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | NO CHIMNEY             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>3</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | NO CONE                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>3</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | NO CHANNEL             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material               | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps             | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:18AM     | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0768 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:41AM     | MACP LEVEL -1         |
| Street Name                                  | PROSPECT AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0769 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>3</b> | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:44AM     | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0770 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/6/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 3:34PM      | MACP LEVEL -1         |
| Street Name                                  | HILLCREST DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0771 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON HILLCREST DR JUST BELOW 21ST ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |             |                       |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                   |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/6/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 2:59PM      | MACP LEVEL -1         |
| Street Name              | RHODES ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0772 |
| Survey Purpose           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON GRASS BETWEEN 19TH AND 20TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>Y</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>3</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     | <b>NO CHIMNEY</b>                 |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>3</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>NO WALL</b>                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                          |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                   |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017                        |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:39AM          |               |
| Street Name                                  | BORDEN AVE                      |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT              |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | TOP OF BORDEN AVE ABOVE 21ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0773       |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                           | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                        | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                      | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                          |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/6/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 1:59PM      | MACP LEVEL -1        |
| Street Name                                  | ALLEY                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0774 |
| Survey Purpose                               | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | BETWEEN 21ST AND 20TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                          |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>H</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>3</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>        |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>2</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       | <b>ERODED AND PITTED</b> |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                          |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>      |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                          |                                                                                                                                                                                                                                                           |             |                      |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                   |                  |             |                       |
|--------------------|-----------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 4/6/2017                          | Inspection Time: | 2:08PM      | MACP LEVEL -1         |
| Street Name        | ALLEY                             | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-0775 |
| Survey Purpose     | ROUTINE ASSESSMENT                | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ALLEY BETWEEN 20TH ST AND 19TH ST |                  |             | CITY: HERMOSA BEACH   |
|                    |                                   |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
|----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Inspection Date:                             | 4/6/2017                                      | Inspection Time:                                                                                                                                                                                                                                          | 2:14PM                                                                                                                        | MACP LEVEL -1        |
| Street Name                                  | ALLEY                                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #: MH-0776 |
| Survey Purpose                               | ROUTINE ASSESSMENT                            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A |
| Location Comments:                           | ALLEY NEXT TO RHODES ST BETWEEN 20TH AND 19TH |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH  |
|                                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                      |
| Location Code                                | <b>H</b>                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                      |
| Inspection Status                            | <b>SI</b>                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                      |
| Access Type:                                 | <b>AMH</b>                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                      |
| Surface Type:                                | <b>1</b>                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                      |
| Cover                                        | Type:                                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                      |
|                                              | Fit:                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                      |
|                                              | Condition                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                      |
| Cover Adjustment Ring                        | <b>NA</b>                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                      |
| Frame: Condition                             | <b>1</b>                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                      |
| Chimney Condition                            | <b>3</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Chimney O&M Comments                         | NO CHIMNEY                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Cone: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Cone O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Wall: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Wall O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Bench: Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Bench Deffect Comments                       |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Channel Condition                            | <b>3</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Channel Deffect Comments                     | NO CHANNEL                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Steps:                                       | Material                                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                      |
|                                              | # of Steps                                    | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                      |
| General Comments                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017                                       | Inspection Time:                                                                                                                                                                                                                                          | 2:02PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | ALLEY                                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0777       |
| Survey Purpose                               | ROUTINE ASSESSMENT                             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ALLEY NEAR RHODES ST AND BETWEEN 20TH AND 21ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>H</b>                                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                          | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>3</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>NO CHANNEL</b>                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                       | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                     | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/6/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 3:08PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 19TH ST                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0778 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON 19TH ST NEAR RHODES ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>2</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     | <b>LOOKS BOKEN</b>        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/7/2017                | Inspection Time:                                                                                                                                                                                                                                          | 12:06PM     | MACP LEVEL -1         |
| Street Name                                  | 18TH ST                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0779 |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | 18TH ST JUST BEFORE PCH |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                         |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                         |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                         |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                         |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>     |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/7/2017            | Inspection Time:                                                                                                                                                                                                                                          | 11:43AM     | MACP LEVEL -1         |
| Street Name                                  | 18TH ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0780 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | 18TH AND RHODES ST  |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>5</b> | I BELIEVE THESE ARE METAL WITH PLASTIC COATING                                                                                                                                                                                                            |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                              |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 11:36AM          |               |
| Street Name                                  | 18TH ST                               |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | INTERSECTION OF 18TH AND HILLCREST DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0781       |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                       | <b>ROOTS</b>                                                                                                                                                                                                                                              |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>2</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       | <b>ERODED</b>                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                            | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 11:00AM     | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0782 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    | ROOTS                                                                                                                                                                                                                                                     |             |                       |
| Wall: Condition          | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    | ROOTS                                                                                                                                                                                                                                                     |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/7/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 10:18AM     | MACP LEVEL -1          |
| Street Name                                  | 18TH ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0782A |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 18TH ST JUST BEFORE PROSPECT AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                     |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>3</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>6</b>                 | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                                                                                                                                                 |             |                        |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 10:57AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | PROSPECT AVE       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0783       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    | ROOTS                                                                                                                                                                                                                                                     |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>2</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    | ROOTS                                                                                                                                                                                                                                                     |                                                                                                                               |                  |               |
| Bench: Condition                             |                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>4</b>                                                                                                                                                                                                                                                  | CORROSION MISSING 1                                                                                                           |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:48AM     | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0784 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>3</b> | <b>CORROSION</b>                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                    |                  |             |                  |               |
|--------------------|--------------------|------------------|-------------|------------------|---------------|
| Inspection Date:   | 5/30/2017          | Inspection Time: | 10:52AM     |                  | MACP LEVEL -1 |
| Street Name        | PROSPECT AVE       | Survey By:       | A.SOUZA     | MH/ACCESS #.:    | MH-0784A      |
| Survey Purpose     | ROUTINE ASSESSMENT | MACP #           | U-1209-6134 | Field Book Page: | N/A           |
| Location Comments: |                    |                  |             | CITY             | HERMOSA BEACH |
|                    |                    |                  |             |                  |               |
|                    |                    |                  |             |                  |               |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>4</b>   |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 11:05AM     | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0785 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>1</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017                           |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 3:22PM           |               |
| Street Name                                  | HILLCREST DR                       |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                 |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON HILLCREST DR JUST ABOVE 18TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0786       |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                    |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/6/2017                                           | Inspection Time:                                                                                                                                                                                                                                          | 3:34PM      | MACP LEVEL -1         |
| Street Name                                  | HILLCREST DR                                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0787 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | MIDDLE OF HILLCREST DR BETWEEN 21ST ST AND 18TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                                |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                                    |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/6/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 3:12PM      | MACP LEVEL -1         |
| Street Name                                  | RHODES ST                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0788 |
| Survey Purpose                               | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON RHODES JUST ABOVE 18TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                              |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>3</b>          | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                                                                                                                                              |             |                       |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/6/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 3:03PM      | MACP LEVEL -1         |
| Street Name              | RHODES ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0790 |
| Survey Purpose           | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF RHODES ST AND 19TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>                              | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments         |                                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/7/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 1:04PM      | MACP LEVEL -1         |
| Street Name                                  | 17TH ST                                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0792 |
| Survey Purpose                               | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | MIDDLE OF 17TH ST 2ND MH PAST RAYMOND AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/7/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 1:13PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 17TH ST                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0793 |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | WHERE 17TH AND PROSPECT AVE MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | 1                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | SI                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | AMH                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | 1                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                            | 10                                                                                                                                                                                                                                                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                             | 1                                                                                                                                                                                                                                                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                        | 1                                                                                                                                                                                                                                                         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | NA                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | 1                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | 1                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | 1                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | 1                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | 1                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | 1                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                         | 2                                                                                                                                                                                                                                                         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                       | 1                                                                                                                                                                                                                                                         |                                                                                                                               |                       |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 2:02PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 16TH ST                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0794       |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | INTERSECTION OF 16TH AND RAYMOND AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                             | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                           | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Inspection Date:                             | 4/7/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 1:59PM                                                                                                                         | MACP LEVEL -1         |
| Street Name                                  | 16TH ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                        | MH/ACCESS #.: MH-0795 |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                    | Field Book Page: N/A  |
| Location Comments:                           | ON 16TH ST JUST PAST RAYMOND ST |                                                                                                                                                                                                                                                           |                                                                                                                                | CITY: HERMOSA BEACH   |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                                |                       |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                                |                       |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                                |                       |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                                |                       |
| Surface Type:                                | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                                |                       |
| Cover                                        | Type:                           | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMP HOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                         |                       |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                |                       |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                                |                       |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                                |                       |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Steps:                                       | Material                        | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                              |                       |
|                                              | # of Steps                      | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                                |                       |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/7/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 2:08PM      | MACP LEVEL -1        |
| Street Name                                  | 15TH PL                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0798 |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | CORNER OF 15TH PL                    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                      |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             | SURFACE TYPE IS ASPHALT AND CONCRETE |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 2:46PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | RAYMOND AVE                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0800       |
| Survey Purpose                               | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON RAYMOND AVE BETWEEN 17TH AND 16TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>2</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       | <b>ERODED</b>                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                              | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 5/30/2017                                                                       | Inspection Time:                                                                                                                                                                                                                                          | 12:18PM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                  | ALLEY                                                                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0801 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | BETWEEN PCH AND ARDMORE ABOVE 16TH ST BELOW 18TH ST. IN CONDO OR APARTMENT AREA |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>H</b>                                                                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                                                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                                                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                                                                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                                                           | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                                                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                                                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                                                                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>3</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         | NO CHIMNEY                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>3</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             | NO CONE                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                                                        | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                                                      | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                                                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                                       |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/30/2017                                                                             | Inspection Time:                                                                                                                                                                                                                                          | 12:12PM     | MACP LEVEL -1         |
| Street Name                                  | ALLEY                                                                                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0802 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | BETWEEN PCH AND ARDMORE ABOVE 16TH AND BELOW 19TH. LOOKS LIKE APARTMENT OR CONDO AREA |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                                                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                                      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>H</b>                                                                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                                                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                                                                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                                                                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                                                                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                                                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                                                                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                                                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                                                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>3</b>                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         | NO CHIMNEY                                                                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>3</b>                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             | NO CONE                                                                               |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                                                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                                                                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                                                                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                                                                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/31/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 1:18AM      | MACP LEVEL -1         |
| Street Name                                  | PIER AVE                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0806 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                           |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>D</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>4</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             | SURFACE IS DIRT AND MULCH |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |               |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|
| Inspection Date:         | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 12:08AM       | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA       | MH/ACCESS #.: MH-0807 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134   | Field Book Page: N/A  |
| Location Comments:       | PCH AND PIER AVE      | CITY                                                                                                                                                                                                                                                      | HERMOSA BEACH |                       |
| <b>OBSERVATION</b>       |                       |                                                                                                                                                                                                                                                           |               |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |               |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |               |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |               |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |               |                       |
| Cover Type:              | <b>5</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |               |                       |
| Fit:                     | <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |               |                       |
| Condition                | <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |               |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |               |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |               |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |               |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |               |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |               |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |               |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |               |                       |
| Steps: Material          | <b>NA</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |               |                       |
| # of Steps               | <b>0</b>              |                                                                                                                                                                                                                                                           |               |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/31/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 12:19AM          |               |
| Street Name                                  | PACIFIC COAST HIGHWAY |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | PCH AND 13TH ST       |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0808       |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                 | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps            | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 12:15AM     | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0809 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | PCH AND 11TH PL       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                       |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>              | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 4/10/2017                                   | Inspection Time:                                                                                                                                                                                                                                          | 10:30AM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                   | AVIATION BLVD                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0812 |
| Survey Purpose                                | ROUTINE ASSESSMENT                          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | WHERE AVIATION BLVD AND AUBREY PARK CT MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>C</b>                                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>2</b>                                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                                       | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>4</b>                                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                                    | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                                  | <b>5</b>                                                                                                                                                                                                                                                  | CORRODED 1 MISSING                                                                                                            |                       |
| General Comments                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                                                            | Inspection Time:                                                                                                                                                                                                                                          | 10:38AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | AVIATION BLVD                                                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0812A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE AVIATION BLVD AND AUBREY PARK CT MEET MIDDLE OF CROSSWALK      |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                                | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                           | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             | MH IS NOT NUMBERED ON MAP SO WE CALLED IT 812A SINCE ITS NEXT TO 812 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 4/10/2017                                   | Inspection Time:                                                                                                                                                                                                                                          | 8:18AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                   | AVIATION BLVD                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0816 |
| Survey Purpose                                | ROUTINE ASSESSMENT                          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | WHERE AVIATION BLVD AND BONNIE BRAE ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>C</b>                                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>2</b>                                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                                       | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>4</b>                                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                                    | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                                  | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 8:13AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | AVIATION BLVD                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0816A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON AVIATION BLVD BEFORE BONNIE BRAE ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                  | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                               | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                             | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             | SURFACE IS ASPHALT AND CONCRETE        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                        |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/10/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 7:40AM      | MACP LEVEL -1         |
| Street Name              | AVIATION BLVD                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0818 |
| Survey Purpose           | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE AVIATION BLVD AND CORONA ST MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                               |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                        |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                                             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:31AM           |               |
| Street Name                                  | CORONA ST                                             |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | MIDDLE OF CORONA ST BETWEEN AVIATION BLVD AND 14TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0818A      |
|                                              |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                            | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 11:26AM     | MACP LEVEL -1         |
| Street Name                                  | AVIATION BLVD       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0819 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/7/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 9:56AM      | MACP LEVEL -1         |
| Street Name                                  | 14TH ST                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0820 |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF 14TH AND PROSPECT AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>3</b>                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/7/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 10:04AM     | MACP LEVEL -1         |
| Street Name                                  | 14TH ST                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0821 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | AT 14TH ST AND HARPER AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>3</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 9:45AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 15TH ST                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0822       |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE 15TH AND PROSPECT AVE MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 11:12AM     | MACP LEVEL -1         |
| Street Name              | PROSPECT AVE       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0825 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>           | <b>CORROSION</b>                                                                                                                                                                                                                                          |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:36AM           |               |
| Street Name                                  | 15TH ST                          |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT               |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | WHERE 15TH ST AND GOLDEN ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-0826       |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             |                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED AWAY METAL STICKING OUT OF THE CONE                                                                                  |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/7/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 9:33AM      | MACP LEVEL -1         |
| Street Name                                  | 15TH ST                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0827 |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | WHERE 15TH AND SILVER ST MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                               |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>5</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>2</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                               | ROOTS AND CRACK                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |               |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|
| Inspection Date:         | 4/7/2017            | Inspection Time:                                                                                                                                                                                                                                          | 9:18AM        | MACP LEVEL -1         |
| Street Name              | SILVER ST           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA       | MH/ACCESS #.: MH-0828 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134   | Field Book Page: N/A  |
| Location Comments:       | MIDDLE OF SILVER ST | CITY                                                                                                                                                                                                                                                      | HERMOSA BEACH |                       |
| <b>OBSERVATION</b>       |                     |                                                                                                                                                                                                                                                           |               |                       |
| Location Code            | <b>F</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |               |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |               |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |               |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |               |                       |
| Cover Type:              | <b>10</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |               |                       |
| Fit:                     | <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |               |                       |
| Condition                | <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |               |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |               |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |               |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |               |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |               |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |               |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |               |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |               |                       |
| Steps: Material          | <b>NA</b>           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |               |                       |
| # of Steps               | <b>0</b>            |                                                                                                                                                                                                                                                           |               |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/7/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 9:29AM      | MACP LEVEL -1         |
| Street Name                                  | 15TH ST                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0830 |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | WHERE 15TH ST AND HARPER AVE MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>3</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                 |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>3</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             | <b>NO CONE</b>                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>               |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 9:12AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | GOLDEN ST                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0831       |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF GOLDEN ST ON THE SIDEWALK |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>2</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       | <b>ERODED</b>                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/7/2017            | Inspection Time:                                                                                                                                                                                                                                          | 9:06AM      | MACP LEVEL -1         |
| Street Name              | GOLDEN ST           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0832 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | CORNER OF GOLDEN ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>            |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 8:17AM           |               |
| Street Name                                  | GOLDEN ST                        |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT               |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | END OF GOLDEN ST JUST BELOW 17TH |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0833       |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>Y</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>ROOTS</b>                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | <b>ROOTS</b>                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>2</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             | <b>ROOTS</b>                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                        |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/10/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 8:01AM      | MACP LEVEL -1         |
| Street Name              | OWOSSO AVE                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0835 |
| Survey Purpose           | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON OWOSSO AVE JUST ABOVE AVIATION BLVD |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>D</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>4</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                               |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                        |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                                              | Inspection Time:                                                                                                                                                                                                                                          | 7:56AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | OWOSSO AVE                                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0836       |
| Survey Purpose                               | ROUTINE ASSESSMENT                                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF OWOSSO AVE BETWEEN 14TH ST AND AVIATION BLVD |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                  | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                               | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                             | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/10/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 8:39AM      | MACP LEVEL -1         |
| Street Name              | BONNIE BRAE ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0837 |
| Survey Purpose           | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON BONNIE BRAE ST JUST ABOVE AVIATION BLVD |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>Y</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>4</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                            |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/10/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 8:35AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | BONNIE BRAE ST                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0838 |
| Survey Purpose                               | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | 2ND MH ON BONNIE BRAE ABOVE AVIATION BLVD |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>Y</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>C</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>4</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                                   | Inspection Time:                                                                                                                                                                                                                                          | 9:42AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | AUBREY PARK CT                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0840       |
| Survey Purpose                               | ROUTINE ASSESSMENT                          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE AUBREY PARK CT AND MONTGOMERY DR MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                       | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                   |                                                                                                                                                                                                                                                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                    | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                  | <b>5</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                         |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/10/2017                               | Inspection Time:                                                                                                                                                                                                                                          | 9:50AM      | MACP LEVEL -1         |
| Street Name              | AUBREY PARK CT                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0841 |
| Survey Purpose           | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE AUBREY PARK CT AND AUBREY CT MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                         |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                                |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                         |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 9:53AM      | MACP LEVEL -1         |
| Street Name                                  | AUBREY CT                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0842 |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | END OF STREET ON A YARD ON AUBREY CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>Y</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>4</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>4</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 9:31AM      | MACP LEVEL -1         |
| Street Name                                  | 13TH ST                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0844 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 13TH ST NEAR OCEAN DR  |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>D</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>4</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>4</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>2</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     | <b>EROSION TO CHANNEL</b> |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
|----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                             | 4/10/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 9:24AM                                                                                                                        | MACP LEVEL -1          |
| Street Name                                  | 13TH ST                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0844A |
| Survey Purpose                               | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                           | MIDDLE OF 13TH ST BETWEEN PCH AND OCEAN DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                                | <b>F</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                            | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                        |
| Access Type:                                 | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                                | <b>2</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                        | Type:                                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                              | Fit:                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                              | Condition                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                        | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                             | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                         |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                              |                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                       |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                     |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                       | Material                                   | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                              | # of Steps                                 | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                        |
| General Comments                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |               |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|
| Inspection Date:         | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 12:24PM       | MACP LEVEL -1         |
| Street Name              | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA       | MH/ACCESS #.: MH-0845 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134   | Field Book Page: N/A  |
| Location Comments:       | PCH AND 14TH ST       | CITY                                                                                                                                                                                                                                                      | HERMOSA BEACH |                       |
| <b>OBSERVATION</b>       |                       |                                                                                                                                                                                                                                                           |               |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |               |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |               |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |               |                       |
| Surface Type:            | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |               |                       |
| Cover Type:              | <b>10</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |               |                       |
| Fit:                     | <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |               |                       |
| Condition                | <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |               |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |               |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |               |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |               |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |               |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |               |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |               |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |               |                       |
| Steps: Material          | <b>NA</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |               |                       |
| # of Steps               | <b>0</b>              |                                                                                                                                                                                                                                                           |               |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/7/2017                                   | Inspection Time:                                                                                                                                                                                                                                          | 3:13PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 14TH ST                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0847 |
| Survey Purpose                               | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF BONNIE BRAE ST AND 14TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                      | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>4</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                   | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                 | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 3:06PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 14TH ST                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0848X      |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE OWOSSO AVE AND 14TH MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                          | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                       | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                     | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                          |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/7/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 3:02PM      | MACP LEVEL -1         |
| Street Name              | 14TH ST                                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0849 |
| Survey Purpose           | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | 14TH ST BETWEEN CORONA ST AND OWOSSO AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                          |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 7:49AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | OWOSSO AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0850       |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON OWOSSO AVE JUST BELOW 14TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED AWAY                                                                                                                 |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                          |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:31PM           |               |
| Street Name                                  | BONNIE BRAE ST                    |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | WHERE BONNIE BRAE AND JOY ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0851       |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>2</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       | <b>ERODED</b>                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>ERODED</b>                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 4/7/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 1:35PM      | MACP LEVEL -1         |
| Street Name                                   | CAMPANA ST                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0853 |
| Survey Purpose                                | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | CORNER OF CAMPANA ST AND JOY ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                                 |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                  | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>10</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>3</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          | <b>NO CHIMNEY</b>               |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b>             |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                                 |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                           |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 1:41PM           |               |
| Street Name                                  | CAMPANA ST                         |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                 |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON CAMPANA ST TOWARDS PROSPECT AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0854       |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/10/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 8:31AM      | MACP LEVEL -1         |
| Street Name                                  | BONNIE BRAE ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0855 |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON BONNIE BRAE ST 1ST MH BELOW 14TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                        |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>2</b>                    | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 5/31/2017             | Inspection Time:                                                                                                                                                                                                                                          | 11:59PM     | MACP LEVEL -1        |
| Street Name                                  | PACIFIC COAST HIGHWAY | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0856 |
| Survey Purpose                               | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | PCH AND 15TH ST       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                       |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                       |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>   |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: INGLEWOOD |                     |                                                                                                                                                                                                                                                           |             |                        |
|------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM        |                     |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                         | 5/31/2017           | Inspection Time:                                                                                                                                                                                                                                          | 12:02AM     | MACP LEVEL -1          |
| Street Name                              | 15TH ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0856A |
| Survey Purpose                           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                       | PCH AND 15TH ST     |                                                                                                                                                                                                                                                           |             | CITY HERMOSA BEACH     |
|                                          |                     |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                            | <b>F</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                            | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                     |                     |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                         |                     |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                         |                     |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                   |                     |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                 |                     |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                   | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                          | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                         |                     |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/7/2017                                |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 3:26PM           |               |
| Street Name                                  | 15TH ST                                 |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                      |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | MIDDLE OF 15TH BETWEEN OCEAN DR AND PCH |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0857       |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                              | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED AND MISSING                                                                                                          |                  |               |
| General Comments                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/7/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 3:21PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 15TH ST                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0858 |
| Survey Purpose                               | ROUTINE ASSESSMENT           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | 15TH ST JUST BEFORE OCEAN DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>D</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>4</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                        | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                     | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                   | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED MISSING                                                                                                              |                       |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |



| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 5/30/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 1:46PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | EASEMENT                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0859       |
| Survey Purpose                                | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | HERMOSA VALLEY SCHOOL PROPERTY |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>D</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                          | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                           | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                | ROOTS                                                                                                                                                                                                                                                     |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                | ROOTS                                                                                                                                                                                                                                                     |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                       | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                     | <b>8</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                  |                  |               |
| General Comments                              |                                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                      |
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| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 1:19PM      | MACP LEVEL -1        |
| Street Name                                  | ALLEY               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-0860 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>H</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                     | NO CONE                                                                                                                                                                                                                                                   |             |                      |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>1</b> | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                                                                                                                                                |             |                      |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                                           |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:47PM           |               |
| Street Name                                  | OAK ST                                              |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                                  |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON OAK ST IN THE MIDDLE BETWEEN BARD ST AND LOMA DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0861       |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                          | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/10/2017                   |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:40PM           |               |
| Street Name                                   | OAK ST                      |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT          |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | ON OAK ST CLOSER TO LOMA DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                             |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0862       |
|                                               |                             |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>D</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>4</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                       | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>4</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                    | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                  | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017           | Inspection Time:                                                                                                                                                                                                                                          | 2:55AM      | MACP LEVEL -1         |
| Street Name              | PIER AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0863 |
| Survey Purpose           | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                          |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code            | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                    | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                          | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                          | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                   | Material <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                          | # of Steps <b>2</b> | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/31/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 3:04AM      | MACP LEVEL -1         |
| Street Name              | PIER AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0864 |
| Survey Purpose           | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | PIER AVE AND MONTEREY BLVD |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                            |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
|----------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|--|------|------------------|----------|
| MANHOLE CONDITION ASSESSMENT FORM            |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Inspection Date:                             | 5/31/2017                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Inspection Time: | 4:11AM      |  |      | MACP LEVEL -1    |          |
| Street Name                                  | MONTEREY BLVD                |                                                                                                                                                                                                                                                           |                                                                                                                               | Survey By:       | A.SOUZA     |  |      | MH/ACCESS #:     | MH-0864A |
| Survey Purpose                               | ROUTINE ASSESSMENT           |                                                                                                                                                                                                                                                           |                                                                                                                               | MACP #           | U-1209-6134 |  |      | Field Book Page: | N/A      |
| Location Comments:                           | MONTEREY BLVD BELOW PIER AVE |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  | CITY | HERMOSA BEACH    |          |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
|                                              |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |             |  |      |                  |          |
| Location Code                                | <b>C</b>                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |             |  |      |                  |          |
| Inspection Status                            | <b>SI</b>                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |             |  |      |                  |          |
| Access Type:                                 | <b>AMH</b>                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |             |  |      |                  |          |
| Surface Type:                                | <b>1</b>                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |             |  |      |                  |          |
| Cover                                        | Type:                        | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |             |  |      |                  |          |
|                                              | Fit:                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |             |  |      |                  |          |
|                                              | Condition                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |             |  |      |                  |          |
| Cover Adjustment Ring                        | <b>NA</b>                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |             |  |      |                  |          |
| Frame: Condition                             | <b>1</b>                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |             |  |      |                  |          |
| Chimney Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Chimney O&M Comments                         |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Cone: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Cone O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Wall: Condition                              | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Wall O&M Comment                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Bench: Condition                             | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Bench Deffect Comments                       |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Channel Condition                            | <b>1</b>                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |             |  |      |                  |          |
| Channel Deffect Comments                     |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |
| Steps:                                       | Material                     | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |             |  |      |                  |          |
|                                              | # of Steps                   | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |             |  |      |                  |          |
| General Comments                             |                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |             |  |      |                  |          |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 5/30/2017           | Inspection Time:                                                                                                                                                                                                                                          | 12:47PM     | MACP LEVEL -1          |
| Street Name                                  | MONTEREY BLVD       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0864B |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           |                     |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>F</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         | NO CHIMNEY          |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             | NO CONE             |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                        |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 5/31/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 3:06AM      | MACP LEVEL -1          |
| Street Name                                  | PIER AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-0864C |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | PIER AVE AND MONTEREY BLVD |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                            |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>        |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 5/31/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 4:08AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | MONTEREY BLVD             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-0865 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | MONTEREY BLVD AND 11TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                  | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                | <b>6</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                       |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                 |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:55PM           |               |
| Street Name                                  | OAK ST                    |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON OAK ST NEXT TO BARD ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-0866       |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                     | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>4</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/10/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 9:37AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MONTGOMERY DR                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-0867       |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON MONTGOMERY DR NEX TO OCEAN DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>Y</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>C</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>3</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | <b>NO CONE</b>                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/1/2017                                   | Inspection Time:                                                                                                                                                                                                                                          | 1:27PM      | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1001 |
| Survey Purpose           | ROUTINE ASSESSMENT                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF HERMOSA AVE AND HERONDO ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>5</b>                                   | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments         |                                            |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                      |                  |             |                       |
|--------------------|--------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/1/2017                             | Inspection Time: | 1:35PM      | MACP LEVEL -1         |
| Street Name        | HERMOSA AVE                          | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-1002 |
| Survey Purpose     | ROUTINE ASSESSMENT                   | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON HERMOSA AVE JUST ABOVE HERONDO ST |                  |             | CITY: HERMOSA BEACH   |
|                    |                                      |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>5</b>   | <b>I BELIEVE THERE METAL WITH PLASTIC COATING</b>                                                                                                                                                                                                         |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/1/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 1:42PM      | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1003 |
| Survey Purpose           | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON HERMOSA AVE JUST ABOVE LYNDON ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>6</b>                            | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                                                                                                                                                  |             |                       |
| General Comments         |                                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/1/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 1:47PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HERMOSA AVE                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1004       |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON HERMOSA AVE JUST ABOVE 1ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC                                                                                              |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/1/2017                               | Inspection Time:                                                                                                                                                                                                                                          | 10:48AM     | MACP LEVEL -1         |
| Street Name                                  | HERMOSA AVE                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1005 |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF HERMOSA AVE AND 2ND ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                        |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>5</b>                    | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                                                                                                                                              |             |                       |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                           |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/1/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 10:54AM     | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1006 |
| Survey Purpose           | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON HERMOSA AVE AND 3RD ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                           |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>5</b>                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments         |                           |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/1/2017               | Inspection Time:                                                                                                                                                                                                                                          | 11:01AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | HERMOSA AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1007       |
| Survey Purpose                               | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | HERMOSA AVE AND 4TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                  | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material               | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps             | <b>7</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 5/1/2017               | Inspection Time:                                                                                                                                                                                                                                          | 10:25AM     | MACP LEVEL -1        |
| Street Name                                  | HERMOSA AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1008 |
| Survey Purpose                               | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | HERMOSA AVE AND 7TH CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                        |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                        |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>3</b>      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>6</b>    | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                      |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/1/2017               | Inspection Time:                                                                                                                                                                                                                                          | 11:28AM     | MACP LEVEL -1         |
| Street Name                                  | HERMOSA AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1008A |
| Survey Purpose                               | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | HERMOSA AVE AND 6TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                        |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>6</b>    | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |             |                        |
|-----------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                        |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                              | 5/1/2017               | Inspection Time:                                                                                                                                                                                                                                          | 11:31AM     | MACP LEVEL -1          |
| Street Name                                   | HERMOSA AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1008B |
| Survey Purpose                                | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                            | HERMOSA AVE AND 6TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                               |                        |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                 | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                             | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                  | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                 | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                         | Type: <b>5</b>         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                               | Fit: <b>1</b>          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                               | Condition <b>1</b>     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                         | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                              | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                          |                        |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                               | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                              |                        |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                               | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                              |                        |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                        |                        |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                      |                        |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                        | Material <b>3</b>      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                               | # of Steps <b>6</b>    | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                        |
| General Comments                              |                        |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 5/1/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 10:29AM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                   | HERMOSA AVE                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1009 |
| Survey Purpose                                | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | ON HERMOSA AVE BETWEEN 8TH ST AND 8TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>C</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>1</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                                    | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                                 | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                               | <b>7</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                       |
| General Comments                              |                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 5/1/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 10:34AM     | MACP LEVEL -1         |
| Street Name                                   | HERMOSA AVE               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1010 |
| Survey Purpose                                | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | ON HERMOSA AVE AND 9TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                  | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>3</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>7</b>       | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments                              |                           |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/1/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 1:01PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HERMOSA AVE                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1011       |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON HERMOSA AVE AND 11TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                   | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                 | <b>6</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                     |                  |               |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 5/2/2017                   |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:05AM           |               |
| Street Name                                   | HERMOSA AVE                |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT         |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | ON HERMOSA AVE AND 12TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                            |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1012       |
|                                               |                            |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                   | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                 | <b>6</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/2/2017                                       | Inspection Time:                                                                                                                                                                                                                                          | 7:08AM      | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1013 |
| Survey Purpose           | ROUTINE ASSESSMENT                             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON HERMOSA AVE WHERE PIER AVE AND HERMOSA MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>5</b>                                       | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments         |                                                |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                     |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 5/2/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 7:18AM      | MACP LEVEL -1          |
| Street Name              | HERMOSA AVE                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1014B |
| Survey Purpose           | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | WHERE HERMOSA AVE AND PIER AVE MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>5</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                                     |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>3</b>                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>5</b>                            | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                                                                                                                                              |             |                        |
| General Comments         |                                     |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/2/517                             | Inspection Time:                                                                                                                                                                                                                                          | 7:15AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HERMOSA AVE                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1014C      |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE HERMOSA AVE AND PIER AVE MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                            | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                          | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 5/2/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 7:58AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | HERMOSA AVE                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-1016       |
| Survey Purpose                                | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | ON HERMOSA AVE AND 13TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                      | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                   | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                 | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |             |                      |
|-----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                            |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                              | 5/2/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 8:09AM      | MACP LEVEL -1        |
| Street Name                                   | HERMOSA AVE                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: 1017   |
| Survey Purpose                                | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                            | ON HERMOSA AVE AND 14TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                               |                            |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                 | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                             | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                  | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                 | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                         | Type: <b>5</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                               | Fit: <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                               | Condition <b>1</b>         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                         | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                              | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                          |                            |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                              |                            |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                               | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                              |                            |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                        |                            |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                      |                            |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                        | Material <b>3</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                               | # of Steps <b>5</b>        | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                                                                                                                                                |             |                      |
| General Comments                              |                            |                                                                                                                                                                                                                                                           |             |                      |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                    |                  |             |                       |
|--------------------|------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/2/2017                           | Inspection Time: | 8:45AM      | MACP LEVEL -1         |
| Street Name        | HERMOSA AVE                        | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-1018 |
| Survey Purpose     | ROUTINE ASSESSMENT                 | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | WHERE HERMOSA AVE AND 15TH ST MEET |                  |             | CITY: HERMOSA BEACH   |
|                    |                                    |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>5</b>   | <b>I BELIEVE THERE METAL WITH PLASTIC COATING</b>                                                                                                                                                                                                         |
| General Comments         |            |                                                                                                                                                                                                                                                           |



| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 5/2/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 8:52AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | HERMOSA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-1019       |
| Survey Purpose                                | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | WHERE HERMOSA AVE AND 16TH ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                         | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                    |                  |             |                       |
|--------------------|------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/2/2017                           | Inspection Time: | 9:06AM      | MACP LEVEL -1         |
| Street Name        | HERMOSA AVE                        | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-1020 |
| Survey Purpose     | ROUTINE ASSESSMENT                 | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | WHERE HERMOSA AVE AND 19TH ST MEET |                  |             | CITY: HERMOSA BEACH   |
|                    |                                    |                  |             |                       |
|                    |                                    |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>3</b>   | <b>I BELIEVE THERE METAL WITH A PLATIC COATING</b>                                                                                                                                                                                                        |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/2/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:15AM      | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1021 |
| Survey Purpose           | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE HERMOSA AVE AND 21ST ST MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                   |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/2/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 12:29PM     | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1022 |
| Survey Purpose           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON HERMOSA AVE JUST ABOVE 22ND ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>                          | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                                                                                                                                              |             |                       |
| General Comments         |                                   |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 5/2/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 12:34PM                                                                                                                       | MACP LEVEL -1         |
| Street Name                                  | HERMOSA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1023 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | WHERE HERMOSA AVE AND 24TH ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                         | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                  |                       |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/2/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 12:38PM     | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1024 |
| Survey Purpose           | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE HERMOSA AVE AND 25TH ST MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                           | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments         |                                    |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/4/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 12:32PM     | MACP LEVEL -1        |
| Street Name                                  | HERMOSA AVE                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1025 |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON HERMOSA AVE JUST BELOW 27TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>                    | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>2</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         | <b>LARGE CRACKS</b>               |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>2</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             | <b>CRACKS</b>                     |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>               |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/4/2017                                             | Inspection Time:                                                                                                                                                                                                                                          | 12:39PM     | MACP LEVEL -1         |
| Street Name                                  | HERMOSA AVE                                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1026 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON THE CORNER OF HERMOSA AVE AND 27TH ST ON SIDEWALK |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/4/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 8:17AM      | MACP LEVEL -1         |
| Street Name                                  | 28TH ST                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1027 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | WHERE 28TH ST AND HERMOSA AVE MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                    | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/4/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 8:29AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 29TH ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1028 |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | WHERE 29TH ST MEETS HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         | <b>BROKEN CONCRETE</b>          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                        | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                      | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/4/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 8:40AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 30TH ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1029       |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE 30TH ST MEETS HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     | <b>NO REAL CHANNEL</b>          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                        | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                      | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/4/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 8:52AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | 31ST ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1030 |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | WHERE 31ST ST MEETS HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                        | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                      | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 4/4/2017                               | Inspection Time:                                                                                                                                                                                                                                          | 9:04AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                   | LONFELLOW AVE                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1031 |
| Survey Purpose                                | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | WHERE LONGFELLOW AVE MEETS HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>2</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                                  | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                               | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                             | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/4/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 9:13AM      | MACP LEVEL -1         |
| Street Name                                  | 33RD ST                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1032 |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | WHERE 33RD ST MEETS HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                 |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                 | CRACK                                                                                                                                                                                                                                                     |             |                       |
| Wall: Condition                              | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                 | CRACK                                                                                                                                                                                                                                                     |             |                       |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>             |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             | FRAME IS OFFSET                 |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                 |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/4/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 9:29AM      | MACP LEVEL -1         |
| Street Name              | 34H ST                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1033 |
| Survey Purpose           | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE 34TH ST MEETS HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                        |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                 |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3.20.17               | Inspection Time:                                                                                                                                                                                                                                          | 8:50AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | HERMOSA AVE           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-1034       |
| Survey Purpose                                | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | CORNER ON SIDEWALK    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         |                       |                                                                                                                                                                                                                                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                  |                  |               |
| Frame: Condition                              |                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                      |                  |               |
| Chimney Condition                             |                       | <b>3</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Chimney O&M Comments                          | SHALLOW MH NO CHIMNEY |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               |                       | <b>3</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Cone O&M Comment                              | SHALLOW MH NO CONE    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               |                       | <b>3</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Wall O&M Comment                              | SHALLOW MH NO WALL    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              |                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Bench Deffect Comments                        |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             |                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Channel Deffect Comments                      |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material              | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps            | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 3.20.17                                            | Inspection Time:                                                                                                                                                                                                                                          | 8:55                                                                                                                          | MACP LEVEL -1         |
| Street Name                                  | 35th ST                                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1035 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | CONSTRUCTION SCAFFOLD SET ON TOP OF MH, CAN'T OPEN |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>F</b>                                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        |                                                    |                                                                                                                                                                                                                                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                  |                       |
| Frame: Condition                             | <b>NA</b>                                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>NA</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>NA</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             | <b>NA</b>                                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>NA</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>NA</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>NA</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                                           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                                         | <b>NA</b>                                                                                                                                                                                                                                                 |                                                                                                                               |                       |
| General Comments                             |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/2/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 12:22PM     | MACP LEVEL -1         |
| Street Name                                  | 24TH ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1036 |
| Survey Purpose                               | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF 24TH ST AND PALM DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 3/23/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 10:24AM     | MACP LEVEL -1         |
| Street Name                                   | MANHATTAN AVE                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1037 |
| Survey Purpose                                | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | INTERSECTION OF MANHATTAN AVE AND 24TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                  | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>5</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>                             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>2</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              | <b>ROOTS</b>                              |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                                           |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/23/2017                                                  | Inspection Time:                                                                                                                                                                                                                                          | 10:31AM     | MACP LEVEL -1         |
| Street Name              | 24TH ST                                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1038 |
| Survey Purpose           | ROUTINE ASSESSMENT                                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | CORNER OF MANHATTAN AVE AND 24TH ST IN YARD NEXT TO A TREE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>Y</b>                                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>3</b>                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                                                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                                            |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/23/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 10:05AM     | MACP LEVEL -1         |
| Street Name              | OZONE CT                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1039 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON OZONE CT JUST BELOW 24TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          |                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   | <b>ERODED, ROOTS</b>           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/23/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 9:59AM      | MACP LEVEL -1         |
| Street Name              | OZONE CT                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1042 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON OZONE CT JUST BELOW 25TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CANT OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>3</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|-----------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                              | 3/23/2017                                 | Inspection Time:                                                                                                                                                                                                                                          | 3:02PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                   | MANHATTAN AVE                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1043 |
| Survey Purpose                                | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                            | INTERSECTION OF MANHATTAN AVE AND LOMA DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                 | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                             | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                  | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                 | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                         | Type:                                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                               | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                               | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                              | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                          |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                               | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                               | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                        |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                      |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                        | Material                                  | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                               | # of Steps                                | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED MISSING                                                                                                              |                       |
| General Comments                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                      |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/27/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 3:09PM      | MACP LEVEL -1         |
| Street Name              | LOMA DR                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1044 |
| Survey Purpose           | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF LOMA DR AND OZONE CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         | <b>ROOTS</b>                         |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>2</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         | <b>ROOTS</b>                         |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>2</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   | <b>ERODED</b>                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>2</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments | <b>ERODED</b>                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                             | <b>CORRODED MISSING</b>                                                                                                                                                                                                                                   |             |                       |
| General Comments         |                                      |                                                                                                                                                                                                                                                           |             |                       |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                          |                  |             |                       |
|--------------------|--------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 3/23/2017                | Inspection Time: | 3:18PM      | MACP LEVEL -1         |
| Street Name        | LOMA DR                  | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-1045 |
| Survey Purpose     | ROUTINE ASSESSMENT       | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | ON LOMA DR NEAR DRIVEWAY |                  |             | CITY: HERMOSA BEACH   |
|                    |                          |                  |             |                       |
|                    |                          |                  |             |                       |

| OBSERVATION              | CODE TYPE         | CODE                                                                                                                                                                                                                                                      |
|--------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>H</b>          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b>        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |                   |                                                                                                                                                                                                                                                           |
|                          |                   |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |                   |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                   |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                   |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>NA</b>         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments | <b>NO CHANNEL</b> |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>          |                                                                                                                                                                                                                                                           |
| General Comments         |                   |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 3/232/17                |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 3:24PM           |               |
| Street Name                                   | LOMA DR                 |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT      |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | ON LOMA DR AND PARK AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                         |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1046       |
|                                               |                         |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>H</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                   | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>2</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          | <b>CRACKS</b>           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps              | <b>3</b>                                                                                                                                                                                                                                                  | <b>CORRODED MISSING</b>                                                                                                       |                  |               |
| General Comments                              |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                          |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/23/2017                | Inspection Time:                                                                                                                                                                                                                                          | 3:57PM      | MACP LEVEL -1         |
| Street Name              | LOMA DR                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1049 |
| Survey Purpose           | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON LOMA DR NEAR DRIVEWAY |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                          |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>H</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                          |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 4:03PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | LOMA DR                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1050X      |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON HOME OWNERS DRIVEWAY ON LOMA DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>Y</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                                  |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/23/2017                                                        | Inspection Time:                                                                                                                                                                                                                                          | 11:13AM     | MACP LEVEL -1         |
| Street Name              | PALM DR                                                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1052 |
| Survey Purpose           | ROUTINE ASSESSMENT                                               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON PALM DR JUST BELOW GREENWICH VLG NEXT TO EL GRINGO RESTAURANT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>H</b>                                                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                                                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                                         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                                  |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                                                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                                                         |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                                                  |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017           | Inspection Time:                                                                                                                                                                                                                                          | 9:25AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1053       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | JUST ABOVE 22ND ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/2/2017             | Inspection Time:                                                                                                                                                                                                                                          | 9:23AM      | MACP LEVEL -1         |
| Street Name                                  | 21ST ST              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1054 |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | 21ST ST AND PALMD DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/2/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 9:27AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 21ST ST                          | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1055       |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE 21ST ST AND MANHATTAN MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/5/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 9:51AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | MANHATTAN AVE             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1056 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | MANHATTAN AVE AND 21ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>F</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>C</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                             |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM             |                                             |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 4/5/2017                                    | Inspection Time:                                                                                                                                                                                                                                          | 9:43AM      | MACP LEVEL -1         |
| Street Name                                   | MANHATTAN AVE                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1057 |
| Survey Purpose                                | ROUTINE ASSESSMENT                          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | INTERSECTION OF MANHATTAN AVE AND CIRCLE DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                                             |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                            | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                  | <b>AMH</b>                                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>1</b>                                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>10</b>                             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>                               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>                          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                                             |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                                             |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                                             |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>2</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        | <b>ERODED, DEFORMED</b>                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                                             |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>                          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b>                         |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                                             |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017             | Inspection Time:                                                                                                                                                                                                                                          | 10:34AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | CIRCLE DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1057A      |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | NEXT TO ADDRESS 2162 |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material             | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps           | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                     |                  |               |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                      |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/5/2017             | Inspection Time:                                                                                                                                                                                                                                          | 10:26AM     | MACP LEVEL -1         |
| Street Name              | CIRCLE DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1058 |
| Survey Purpose           | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | NEXT TO ADDRESS 2131 |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                      |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                      | <b>ROOTS</b>                                                                                                                                                                                                                                              |             |                       |
| Wall: Condition          | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>             | <b>CORRODED AND BROKEN</b>                                                                                                                                                                                                                                |             |                       |
| General Comments         |                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                         |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                         |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/5/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 10:13AM     | MACP LEVEL -1        |
| Street Name                                  | CIRCLE DR                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1059 |
| Survey Purpose                               | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | INTERSECTION OF CIRCLE DR AND CIRCLE CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                         |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                        | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                         |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                         |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                         |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>                     |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                                         |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                                                       |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                                                       |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/5/2017                                                                                              | Inspection Time:                                                                                                                                                                                                                                          | 10:20AM     | MACP LEVEL -1          |
| Street Name                                  | CIRCLE DR                                                                                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1059A |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                                                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | INTERSECTION OF CIRCLE DR AND CIRCLE CT                                                               |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                                                                                       |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                                                      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>F</b>                                                                                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                                                                                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                                                                                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>5</b>                                                                                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>                                                                                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                                                                                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                                                                                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                                                                                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                                                                                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>2</b>                                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         | <b>ROOTS</b>                                                                                          |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>2</b>                                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             | <b>ROOTS</b>                                                                                          |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                                                                                       |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>2</b>                                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       | <b>FULL OF DEBRIS SINCE THERE IS NO CHANNEL, SLIGHTLY ERODED</b>                                      |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>2</b>                                                                                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     | <b>NO CHANNEL</b>                                                                                     |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>2</b>                                                                                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>2</b>                                                                                   | <b>MISSING</b>                                                                                                                                                                                                                                            |             |                        |
| General Comments                             | <b>SURFACE TYP IS BRICK. ALSO MAP DOES NOT HAVE MH NUMBER WAS CLOSE TO 1059 SO WE CALLED IT 1059A</b> |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                          |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                          |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/5/2017                 | Inspection Time:                                                                                                                                                                                                                                          | 10:59AM     | MACP LEVEL -1          |
| Street Name                                  | CIRCLE CT                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1059B |
| Survey Purpose                               | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | JUST BELOW MONTEREY BLVD |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                          |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                          |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                          |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                          |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                          |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>      |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                          |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/5/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 9:58AM      | MACP LEVEL -1         |
| Street Name                                  | MANHATTAN AVE                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1060 |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | CORNER OF MANHATTAN AVE AND CIRCLE DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                       |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>F</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/5/2017                                             | Inspection Time:                                                                                                                                                                                                                                          | 10:50AM     | MACP LEVEL -1         |
| Street Name                                  | CIRCLE DR                                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1061 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | CIRCLE DR AND CIRCLE CT                              |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>Y</b>                                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>3</b>                                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>2</b>                                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>1</b>                                  | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments                             | <b>SURFACE TYPE IS ROCKS LAID AROUND MH AND DIRT</b> |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                                |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM             |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 4/5/2017                                       | Inspection Time:                                                                                                                                                                                                                                          | 10:05AM     | MACP LEVEL -1         |
| Street Name                                   | CIRCLE DR                                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1062 |
| Survey Purpose                                | ROUTINE ASSESSMENT                             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | ON SIDEWALK ACROSS FROM CIRCLE CT ON CIRCLE DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                                                |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>F</b>                                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                  | <b>AMH</b>                                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>5</b>                                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>10</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>                             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>                             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b>                            |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              | SURFACE TYPE IS BRICK                          |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 9:25AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1063A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON PLAM DR BETWEEN 21ST ST AND 19TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                  | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                               | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                             | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 8:38AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1067A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON PALM DR AT PIER DR AND PLAM AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 8:50AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1068       |
| Survey Purpose                               | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE 16TH AND PALM DR MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                       | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                    | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                  | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 8:55AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1068A      |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON PALM DR JUST ABOVE 16TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATIN                                                                                     |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 9:06AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1068B      |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON PALM DR JUST BELOW 19TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                              |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:13AM           |               |
| Street Name                                  | PALM DR                                |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                     |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON PALM DR WHERE 19TH ST AND PALM MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1069       |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                  | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                               | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                             | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                           |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/2/2017                                  | Inspection Time:                                                                                                                                                                                                                                          | 10:25AM     | MACP LEVEL -1         |
| Street Name              | MANHATTAN AVE                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1070 |
| Survey Purpose           | ROUTINE ASSESSMENT                        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF MANHATTAN AVE AND 14TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>3</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                           |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                 |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 5/2/2017                                        | Inspection Time:                                                                                                                                                                                                                                          | 10:32AM     | MACP LEVEL -1          |
| Street Name              | MANHATTAN AVE                                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1070A |
| Survey Purpose           | ROUTINE ASSESSMENT                              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | MIDDLE OF MANHATTAN BETWEEN 16TH ST AND 14TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                                                 |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>C</b>                                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>                                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>                                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>10</b>                                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                                                 |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                                                 |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                                                 |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                                                 |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>3</b>                                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                                                 |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>NA</b>                                       | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>0</b>                                        |                                                                                                                                                                                                                                                           |             |                        |
| General Comments         |                                                 |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 5/2/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 11:00AM     | MACP LEVEL -1          |
| Street Name                                  | MANHATTAN AVE                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1070B |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON MANHATTAN JUST BEFORE PIER AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>                    | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>               |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017                         |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 8:43AM           |               |
| Street Name                                  | BAYVIEW DR                        |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON BAYVIEW DR JUST ABOVE PIER AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1071       |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                             | <b>3</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                              | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                         | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                          | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                        | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/2/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 7:34AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HERMOSA AVE                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1072       |
| Survey Purpose                               | ROUTINE ASSESSMENT                      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | INTERSECTION OF HERMOSA AVE AND 14TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                   | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                              | <b>5</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017               |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 3:14PM           |               |
| Street Name                                  | BEACH DR               |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT     |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | BEACH DR AND 14TH ST   |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1073       |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                  | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                   | <b>3</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material               | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps             | <b>2</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             | MH APPEARS TO BE LINED |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017                                                                                     | Inspection Time:                                                                                                                                                                                                                                          | 3:19PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR                                                                                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1073A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                                           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BETWEEN 14TH ST AND 14TH CT                                                                  |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                                             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>Z</b>                                                                                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                                                                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                                                                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                                                                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                                                                        | <b>3</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                                                                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                                                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                                                                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                                                                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                                                                     | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                                                                   | <b>4</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH A PLASTIC COATING                                                                                   |                  |               |
| General Comments                             | MH IS LINED. THE LINER IS DETACHING AT THE TOP. THE MH IS LOCATED NEAR A HOTEL NEXT TO VALET |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 3:09PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1074       |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | INTERSECTION OF 14TH ST AND BEACH DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                | <b>3</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                           | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 2:34PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1076       |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | INTERSECTION OF BEACH DR AND 16TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                           | <b>1</b>                                                                                                                                                                                                                                                  | RUSTED                                                                                                                        |                  |               |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017                | Inspection Time:                                                                                                                                                                                                                                          | 2:41PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 16TH CT                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1076A      |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | 16TH CT AND HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps              | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017             | Inspection Time:                                                                                                                                                                                                                                          | 2:21PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | 1077          |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BEACH DR AND 17TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                | <b>3</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps           | <b>1</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                   |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 4/5/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 2:27PM      | MACP LEVEL -1          |
| Street Name              | 17TH CT                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1077A |
| Survey Purpose           | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | ON 17TH CT JUST BELOW HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>10</b>                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>NA</b>                         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>0</b>                          |                                                                                                                                                                                                                                                           |             |                        |
| General Comments         |                                   |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/5/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 1:25PM      | MACP LEVEL -1         |
| Street Name                                  | BEACH DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1078 |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF BEACH DR AND 18TH CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/5/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 1:18PM      | MACP LEVEL -1          |
| Street Name                                  | 18TH CT                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1078A |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 18TH CT JUST BELOW HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                        |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>               |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/5/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 1:07PM      | MACP LEVEL -1         |
| Street Name                                  | BEACH DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1079 |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF BEACH DR AND 19TH CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/5/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 1:13PM      | MACP LEVEL -1          |
| Street Name                                  | 19TH CT                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1079A |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 19TH CT JUST BELOW HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>               |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                        |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/5/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 1:01PM      | MACP LEVEL -1         |
| Street Name                                  | BEACH DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1080 |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF BEACH DR AND 20TH CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/5/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 12:55PM     | MACP LEVEL -1          |
| Street Name                                  | 20TH CT                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1080A |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 20TH CT JUST BELOW HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>               |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/5/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 12:43PM     | MACP LEVEL -1         |
| Street Name                                  | BEACH DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1081 |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF BEACH DR AND 21ST CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>3</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>3</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/5/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 12:50PM     | MACP LEVEL -1          |
| Street Name                                  | 21ST CT                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1081A |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 21ST CT JUST BELOW HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>                   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>               |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                           |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 4/5/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 8:59AM      | MACP LEVEL -1         |
| Street Name                                   | BEACH DR                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1082 |
| Survey Purpose                                | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | BEACH DR AND 22ND CT      |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                           |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                  | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>3</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b>       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              | FRAME OFFSET FROM CHIMNEY |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/5/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 12:30PM     | MACP LEVEL -1          |
| Street Name                                  | BEACH DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1082A |
| Survey Purpose                               | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON BEACH DR JUST BELOW 22ND CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>               | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>            |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                                |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 8:49AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1083       |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON BEAC DR JUST ABOVE 22ND ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>3</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>ROOTS</b>                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/5/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 8:53AM      | MACP LEVEL -1         |
| Street Name                                  | 22ND ST                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1083A |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | INTERSECTION OF 22ND ST AND BEACH DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                      |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                       | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>3</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |             |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 8:40AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1084       |
| Survey Purpose                               | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BETWEEN 23RD ST AND 24TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                       | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                    | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                  | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017             | Inspection Time:                                                                                                                                                                                                                                          | 8:34AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1084A      |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BEACH DR AND 24TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        |                      | <b>NA</b>                                                                                                                                                                                                                                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                  |                  |               |
| Frame: Condition                             |                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                      |                  |               |
| Chimney Condition                            |                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Chimney O&M Comments                         |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              |                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              |                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Wall O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             |                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Bench Deffect Comments                       |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            |                      | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                              |                  |               |
| Channel Deffect Comments                     |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material             | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps           | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                                                                                            |                                                                                                                                                                                                                                                           |             |                                |
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| MANHOLE CONDITION ASSESSMENT FORM             |                                                                                                            |                                                                                                                                                                                                                                                           |             |                                |
| Inspection Date:                              | 4/5/2017                                                                                                   | Inspection Time:                                                                                                                                                                                                                                          | 8:29AM      | MACP LEVEL -1                  |
| Street Name                                   | 24TH ST                                                                                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1085 OR 1085A |
| Survey Purpose                                | ROUTINE ASSESSMENT                                                                                         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A           |
| Location Comments:                            | BETWEEN THE STRAND AND BEACH DR                                                                            |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH            |
|                                               |                                                                                                            |                                                                                                                                                                                                                                                           |             |                                |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                                                                                           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                                |
| Location Code                                 | <b>F</b>                                                                                                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                                |
| Inspection Status                             | <b>SI</b>                                                                                                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                                |
| Access Type:                                  | <b>AMH</b>                                                                                                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                                |
| Surface Type:                                 | <b>2</b>                                                                                                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                                |
| Cover                                         | Type: <b>10</b>                                                                                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                                |
|                                               | Fit: <b>1</b>                                                                                              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                                |
|                                               | Condition <b>1</b>                                                                                         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                                |
| Cover Adjustment Ring                         | <b>NA</b>                                                                                                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                                |
| Frame: Condition                              | <b>1</b>                                                                                                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                                |
| Chimney Condition                             | <b>1</b>                                                                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                |
| Chimney O&M Comments                          |                                                                                                            |                                                                                                                                                                                                                                                           |             |                                |
| Cone: Condition                               | <b>3</b>                                                                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                |
| Cone O&M Comment                              | <b>NO CONE</b>                                                                                             |                                                                                                                                                                                                                                                           |             |                                |
| Wall: Condition                               | <b>1</b>                                                                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                |
| Wall O&M Comment                              |                                                                                                            |                                                                                                                                                                                                                                                           |             |                                |
| Bench: Condition                              | <b>1</b>                                                                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                |
| Bench Deffect Comments                        |                                                                                                            |                                                                                                                                                                                                                                                           |             |                                |
| Channel Condition                             | <b>1</b>                                                                                                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                |
| Channel Deffect Comments                      |                                                                                                            |                                                                                                                                                                                                                                                           |             |                                |
| Steps:                                        | Material <b>NA</b>                                                                                         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                                |
|                                               | # of Steps <b>0</b>                                                                                        |                                                                                                                                                                                                                                                           |             |                                |
| General Comments                              | <b>IS MH 1085 THERE IS NO OTHER MH'S SEEN ABOVE GROUND AND LOOKS LIKE NEW CONSTRUCTION MH 1085A MAY NO</b> |                                                                                                                                                                                                                                                           |             |                                |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Inspection Date:                             | 4/4/2017                                           | Inspection Time:                                                                                                                                                                                                                                          | 12:55PM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | THE STRAND                                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                        | MH/ACCESS #.: MH-1086 |
| Survey Purpose                               | ROUTINE ASSESSMENT                                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                    | Field Book Page: N/A  |
| Location Comments:                           | WALKWAY NEXT TO BEACH NEAR HERMOSA AVE AND 26TH ST |                                                                                                                                                                                                                                                           |                                                                                                                                | CITY: HERMOSA BEACH   |
|                                              |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                                |                       |
| Location Code                                | <b>F</b>                                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                                |                       |
| Inspection Status                            | <b>SI</b>                                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                                |                       |
| Access Type:                                 | <b>AMH</b>                                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                                |                       |
| Surface Type:                                | <b>2</b>                                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                                |                       |
| Cover                                        | Type:                                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMP HOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                         |                       |
|                                              | Condition                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                                |                       |
| Frame: Condition                             | <b>1</b>                                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                                |                       |
| Chimney Condition                            | <b>NA</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Chimney O&M Comments                         |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Cone: Condition                              | <b>NA</b>                                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Cone O&M Comment                             |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Wall: Condition                              | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Wall O&M Comment                             |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Bench: Condition                             | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Bench Deffect Comments                       |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Channel Condition                            | <b>1</b>                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                                |                       |
| Channel Deffect Comments                     |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |
| Steps:                                       | Material                                           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                              |                       |
|                                              | # of Steps                                         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                                |                       |
| General Comments                             |                                                    |                                                                                                                                                                                                                                                           |                                                                                                                                |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |               |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |               |                       |
| Inspection Date:                             | 4/5/2017            | Inspection Time:                                                                                                                                                                                                                                          | 9:03AM        | MACP LEVEL -1         |
| Street Name                                  | 22ND CT             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA       | MH/ACCESS #.: MH-1088 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134   | Field Book Page: N/A  |
| Location Comments:                           | ON 22ND CT          | CITY                                                                                                                                                                                                                                                      | HERMOSA BEACH |                       |
|                                              |                     |                                                                                                                                                                                                                                                           |               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |               |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |               |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |               |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |               |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |               |                       |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |               |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |               |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |               |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |               |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |               |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |               |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |               |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |               |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |               |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |               |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |               |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |               |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |               |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/5/2017            | Inspection Time:                                                                                                                                                                                                                                          | 12:36PM     | MACP LEVEL -1         |
| Street Name                                  | 21ST ST             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1089 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | BELOW 22ND CT       |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: INGLEWOOD |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM        |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                         | 4/6/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 8:03AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                              | 13TH CT                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1090       |
| Survey Purpose                           | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                       | END OF 13TH CT NEAR HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                          |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                       | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                            | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                        | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                             | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                            | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                    | Type:                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                          | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                          | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                    | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                         | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                         | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                   |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                 |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                   | Material                        | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                          | # of Steps                      | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE THER METAL WITH PLASTIC COATING                                                                                     |                  |               |
| General Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                          |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 5/2/2017                                                 | Inspection Time:                                                                                                                                                                                                                                          | 7:28AM      | MACP LEVEL -1          |
| Street Name              | HERMOSA AVE                                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1090A |
| Survey Purpose           | ROUTINE ASSESSMENT                                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | MIDDLE OF STREET NEAR ISLAND OFF HERMOSA AVE AND 13TH CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                                                          |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>C</b>                                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:             | <b>AMH</b>                                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>1</b>                                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>5</b>                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                                                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                                                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                                                          |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                                                          |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                                                          |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                                                          |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                                                          |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>3</b>                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>5</b>                                                 | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                        |
| General Comments         |                                                          |                                                                                                                                                                                                                                                           |             |                        |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 7:57AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1091       |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | INTERSECTION OF BEACH DR AND 13TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                           | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017                | Inspection Time:                                                                                                                                                                                                                                          | 3:27PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1092       |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON BEACH DR AND 14TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps              | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                             |                                                                                                                                                                                                                                                           |             |                        |
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| MANHOLE CONDITION ASSESSMENT FORM            |                             |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/5/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 3:37PM      | MACP LEVEL -1          |
| Street Name                                  | 14TH CT                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1092A |
| Survey Purpose                               | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 14TH CT NEAR HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                             |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                             |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                             |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                             |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                             |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                             |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>         |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                             |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 8:17AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PIER PLAZA                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1093       |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE PIER PLAZA AND BEACH DR MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>D</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                         | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                        |
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| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/6/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 8:25AM      | MACP LEVEL -1          |
| Street Name                                  | TH STRAND                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1093A |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | THE STRAND AND PIER PLAZA |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                           |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>F</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>2</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>3</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>2</b>       | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                        |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM             |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/6/2017                                  |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 8:30AM           |               |
| Street Name                                   | THE STRAND                                |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT                        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | THE STRAND BETWEEN PIER PLAZA AND 12TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-1093B      |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                     | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>3</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          | <b>NO CHIMNEY</b>                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 4/6/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 8:21AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | PIER PLAZA                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #: MH-1093C |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | WHERE THE STRAND AND PIER PLAZA MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>F</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>2</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                                | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                           | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/6/2017             | Inspection Time:                                                                                                                                                                                                                                          | 8:42AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | BEACH DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1094       |
| Survey Purpose                                | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | BEACH DR AND 12TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>2</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material             | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps           | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                              |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 8:38AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 12TH CT                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1094A      |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE BEACH DR AND 12TH CT MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                        | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                      | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
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| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                             | 4/6/2017                | Inspection Time:                                                                                                                                                                                                                                          | 8:53AM                                                                                                                        | MACP LEVEL -1          |
| Street Name                                  | 12TH CT                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1094B |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                           | 12TH CT AND HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                              |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                                | <b>F</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                        |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                                | <b>2</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                        | Type:                   | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                              | Fit:                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                              | Condition               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                         |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                       |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                     |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                       | Material                | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                              | # of Steps              | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                        |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017             | Inspection Time:                                                                                                                                                                                                                                          | 9:29AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1095       |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | 11TH CT AND BEACH DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AWA</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps           | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 9:35AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 11TH CT                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1095A      |
| Survey Purpose                               | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 11TH CT NEAR HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                       | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                    | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                  | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017             | Inspection Time:                                                                                                                                                                                                                                          | 8:47AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1095B      |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BEACH DR AND 12TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material             | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps           | <b>3</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/6/2017             | Inspection Time:                                                                                                                                                                                                                                          | 9:43AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1096       |
| Survey Purpose                               | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BEACH DR AND 10TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                | <b>3</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>BROKEN,CRACKS</b> |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material             | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps           | <b>1</b>                                                                                                                                                                                                                                                  | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                             |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                             |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/6/2017                    | Inspection Time:                                                                                                                                                                                                                                          | 9:48AM      | MACP LEVEL -1          |
| Street Name                                  | 10TH CT                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1096A |
| Survey Purpose                               | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 10TH CT NEAR HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                             |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                             |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                             |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                             |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                             |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                             |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>         |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                             |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017           | Inspection Time:                                                                                                                                                                                                                                          | 8:48AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1097       |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BEACH DR AND 9TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:               | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material            | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps          | <b>1</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/12/2017              | Inspection Time:                                                                                                                                                                                                                                          | 8:58        | MACP LEVEL -1          |
| Street Name                                  | 9TH CT                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1097A |
| Survey Purpose                               | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | 9TH CT AND HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                        |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                        |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>    |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|-----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                              | 4/12/2017           | Inspection Time:                                                                                                                                                                                                                                          | 9:07AM      | MACP LEVEL -1         |
| Street Name                                   | BEACH DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1098 |
| Survey Purpose                                | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                            | BEACH DR AND 8TH CT |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                               |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                 | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                             | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                  | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                 | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                         | Type: <b>5</b>      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                               | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                               | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                         | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                              | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                             | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                          | <b>NO CHIMNEY</b>   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                               | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                               | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                        |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                      |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                        | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                               | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                              |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/12/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 9:03AM      | MACP LEVEL -1          |
| Street Name                                  | 8TH CT                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1098A |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 8TH CT NEAR HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                            |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>        |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017           | Inspection Time:                                                                                                                                                                                                                                          | 9:19AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1099       |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BEACH DR AND 7TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | NO CHIMNEY          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | NO CONE             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |             |                        |
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| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/12/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 9:25AM      | MACP LEVEL -1          |
| Street Name                                  | 7TH CT                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1099A |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON 7TH CT NEAR HERMOSA AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                            |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>10</b>            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>3</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>          |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>        |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017           | Inspection Time:                                                                                                                                                                                                                                          | 9:35AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1100       |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BEACH DR AND 6TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | NO CHIMNEY          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | NO CONE             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017               | Inspection Time:                                                                                                                                                                                                                                          | 9:30AM                                                                                                                        | MACP LEVEL -1    |               |
| Street Name                                  | 6TH CT                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-100A 1100A |
| Survey Purpose                               | ROUTINE ASSESSMENT      | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | 6TH CT NEAR HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>        | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>               | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                   | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                    | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition               | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>               | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps              | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                         |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017              | Inspection Time:                                                                                                                                                                                                                                          | 9:45AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1101       |
| Survey Purpose                               | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON BEACH DR AND 5TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                  | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material               | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps             | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017                  |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:41AM           |               |
| Street Name                                  | 5TH CT                     |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT         |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 5TH CT NEAR HERMOSA AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-1101A      |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                      | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>3</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | <b>NO CONE</b>             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                   | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                 | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017           | Inspection Time:                                                                                                                                                                                                                                          | 9:49AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1102       |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BEACH DR AND 4TH CT |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/2/2017                         | Inspection Time:                                                                                                                                                                                                                                          | 7:48AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | HERMOSA AVE                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1104       |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | HERMOSA AVE JUST BEFORE PIER AVE |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                            | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                         | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                       | <b>6</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                            |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/1/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 11:53AM     | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1105 |
| Survey Purpose           | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON HERMOSA AVE AND 10TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                            |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                            |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                            |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                            |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                            |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>6</b>                   |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                            |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/1/2017               |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:48AM           |               |
| Street Name                                  | HERMOSA AVE            |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT     |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | HERMOSA AVE AND 8TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1106       |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                  | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                   | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition              | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material               | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps             | <b>4</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/1/2017                                                            | Inspection Time:                                                                                                                                                                                                                                          | 9:54AM      | MACP LEVEL -1         |
| Street Name                                  | HERMOSA AVE                                                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1106B |
| Survey Purpose                               | ROUTINE ASSESSMENT                                                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON HERMOSA AVE AND 8TH ST                                           |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                                                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                                    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                                                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                                                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                                                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                                                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                                                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                                                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>                                                   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>4</b>                                                 | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments                             | THIS MH DOES NOT HAVE A NAME ON THE GIVEN MAPS SO WE NAMED IT 1106B |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                           |                                                                                                                                                                                                                                                           |             |                      |
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| MANHOLE CONDITION ASSESSMENT FORM            |                           |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 5/1/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 11:42AM     | MACP LEVEL -1        |
| Street Name                                  | HERMOSA AVE               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1107 |
| Survey Purpose                               | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON HERMOSA AVE AND 6TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                           |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>          | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>           | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                           |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                           |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                           |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                           |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>3</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>3</b>       | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                      |
| General Comments                             |                           |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                        |                                                                                                                                                                                                                                                           |             |                      |
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| MANHOLE CONDITION ASSESSMENT FORM            |                        |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 5/1/2017               | Inspection Time:                                                                                                                                                                                                                                          | 12:52PM     | MACP LEVEL -1        |
| Street Name                                  | HERMOSA AVE            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1108 |
| Survey Purpose                               | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | HERMOSA AVE AND 4TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                        |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>10</b>        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                        |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                        |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                        |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                        |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                        |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>    |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                        |                                                                                                                                                                                                                                                           |             |                      |



| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/17/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 7:27AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                   | 4TH ST                             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1110       |
| Survey Purpose                                | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | INTERSECTION OF PALM DR AND 4TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 7:31AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1110A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON PALM DR BETWEEN 6TH ST AND 4TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                             | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                           | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH A PLASTIC COATING                                                                                    |                  |               |
| General Comments                             | MH IS LINED                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017          |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 10:12AM          |               |
| Street Name                                  | 6TH ST             |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | 6TH ST AND PALM DR |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1111       |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>Y</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>3</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
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| MANHOLE CONDITION ASSESSMENT FORM            |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/11/2017                   | Inspection Time:                                                                                                                                                                                                                                          | 8:25AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1113       |
| Survey Purpose                               | ROUTINE ASSESSMENT          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE PALM AND 10TH ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                       | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                    | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                  | <b>2</b>                                                                                                                                                                                                                                                  | CORRODED                                                                                                                      |                  |               |
| General Comments                             |                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |             |                       |
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| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/11/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 8:34AM      | MACP LEVEL -1         |
| Street Name                                  | PALM DR                         | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1114 |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | WHERE PALM DR AND PIER AVE MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                 |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>             |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                          |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017                | Inspection Time:                                                                                                                                                                                                                                          | 3:59AM      | MACP LEVEL -1         |
| Street Name              | 8TH ST                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1115 |
| Survey Purpose           | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | 8TH ST AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                          |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>                 | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                                                                                                                                              |             |                       |
| General Comments         |                          |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
|----------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                             | 5/31/2017                        | Inspection Time:                                                                                                                                                                                                                                          | 3:27AM                                                                                                                        | MACP LEVEL -1          |
| Street Name                                  | MANHATTAN AVE                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1115A |
| Survey Purpose                               | ROUTINE ASSESSMENT               | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                           | MANHATTAN AVE JUST BELOW 10TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                              |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                 | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                                | <b>C</b>                         | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                            | <b>SI</b>                        | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                        |
| Access Type:                                 | <b>AMH</b>                       | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                                | <b>2</b>                         | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                        | Type:                            | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                              | Fit:                             | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                              | Condition                        | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                        | <b>NA</b>                        | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                             | <b>1</b>                         | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                         |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                              | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                             | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                       |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                            | <b>1</b>                         | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                     |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                       | Material                         | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                              | # of Steps                       | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                        |
| General Comments                             |                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Inspection Date:                             | 5/31/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 3:32AM                                                                                                                        | MACP LEVEL -1          |
| Street Name                                  | MANHATTAN AVE              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1115B |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A   |
| Location Comments:                           | MANHATTAN AVE BELOW 8TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH    |
|                                              |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                        |
| Location Code                                | <b>D</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                        |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                        |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                        |
| Surface Type:                                | <b>4</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                        |
| Cover                                        | Type:                      | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                        |
|                                              | Fit:                       | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                        |
|                                              | Condition                  | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                        |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                        |
| Frame: Condition                             | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                        |
| Chimney Condition                            | <b>NA</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Chimney O&M Comments                         |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Cone: Condition                              | <b>NA</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Cone O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Wall: Condition                              | <b>NA</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Bench: Condition                             | <b>NA</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Channel Condition                            | <b>NA</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                        |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |
| Steps:                                       | Material                   | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                        |
|                                              | # of Steps                 | <b>NA</b>                                                                                                                                                                                                                                                 |                                                                                                                               |                        |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |                                                                                                                               |                        |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                    |                  |             |                       |
|--------------------|--------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/30/2017          | Inspection Time: | 3:55AM      | MACP LEVEL -1         |
| Street Name        | 8TH ST             | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-1116 |
| Survey Purpose     | ROUTINE ASSESSMENT | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | 8TH AND BAYVIEW DR |                  |             | CITY: HERMOSA BEACH   |
|                    |                    |                  |             |                       |
|                    |                    |                  |             |                       |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>C</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>1</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
|                          |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>3</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>7</b>   | <b>I BELIEVE THERE METAL WITH A PLASTIC COATING</b>                                                                                                                                                                                                       |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                        |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/17/2017              | Inspection Time:                                                                                                                                                                                                                                          | 8:14AM      | MACP LEVEL -1         |
| Street Name              | BAYVIEW DR             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1117 |
| Survey Purpose           | ROUTINE ASSESSMENT     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | 10TH ST AND BAYVIEW DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                        |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>6</b>               | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                        |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/17/2017             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 8:05AM           |               |
| Street Name                                   | BAYVIEW DR            |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                                | ROUTINE ASSESSMENT    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                            | BAYVIEW DR AND 6TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1119       |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                               |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              | <b>1</b>              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>3</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps            | <b>5</b>                                                                                                                                                                                                                                                  | CORRODEDE                                                                                                                     |                  |               |
| General Comments                              |                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                      |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/30/2017            | Inspection Time:                                                                                                                                                                                                                                          | 3:47AM      | MACP LEVEL -1         |
| Street Name              | 4TH ST               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1120 |
| Survey Purpose           | ROUTINE ASSESSMENT   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | 4TH ST AND MANHATTAN |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                      |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>6</b>             |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                      |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/17/2017             | Inspection Time:                                                                                                                                                                                                                                          | 7:52AM      | MACP LEVEL -1         |
| Street Name              | 4TH ST                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1121 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | BAYVIEW DR AND 4TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                       |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>5</b>              | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/17/2017             | Inspection Time:                                                                                                                                                                                                                                          | 8:00AM      | MACP LEVEL -1         |
| Street Name              | BAYVIEW DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1122 |
| Survey Purpose           | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | BAYVIEW DR AND 6TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                       |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>5</b>              |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017                                   | Inspection Time:                                                                                                                                                                                                                                          | 7:46AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | BAYVIEW DR                                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1123       |
| Survey Purpose                               | ROUTINE ASSESSMENT                          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF BAYVIEW DR BETWEEN 4TH AND 2ND ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                       | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                    | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                  | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/31/2017                       |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 3:41AM           |               |
| Street Name                                  | MANHATTAN AVE                   |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT              |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | MANHATTAN AVE JUST ABOVE 4TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1124       |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                        | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                      | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017                     | Inspection Time:                                                                                                                                                                                                                                          | 7:20AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1125       |
| Survey Purpose                               | ROUTINE ASSESSMENT            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | WHERE 2ND ST AND PALM DR MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017          | Inspection Time:                                                                                                                                                                                                                                          | 7:16AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | PALM DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1126       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | PALM DR AND 1ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>3</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    | NO CONE                                                                                                                                                                                                                                                   |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                           |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/1/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 12:42PM     | MACP LEVEL -1         |
| Street Name              | HERMOSA AVE               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1127 |
| Survey Purpose           | ROUTINE ASSESSMENT        | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | ON HERMOSA AVE AND 2ND ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                           |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                           |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                           |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                           |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                           |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                  |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                           |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/1/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 2:35PM      | MACP LEVEL -1         |
| Street Name              | 2ND ST                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1128 |
| Survey Purpose           | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF 2ND AND MANHATTAN AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                              |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                       |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/1/817                                       | Inspection Time:                                                                                                                                                                                                                                          | 2:41PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MANHATTAN AVE                                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1128A      |
| Survey Purpose                               | ROUTINE ASSESSMENT                            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MIDDLE OF MANHATTAN BETWEEN 4TH ST AND 2ND ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                         | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                      | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                    | <b>1</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                       |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/2/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 2:23PM      | MACP LEVEL -1         |
| Street Name              | 2ND ST                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1129 |
| Survey Purpose           | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF BAYVIEW DR AND 2ND ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                              | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                       |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                              | MISSING PART OF IT STILL IN WALL                                                                                                                                                                                                                          |             |                       |
| General Comments         |                                       |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                     |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 5/2/2017                            | Inspection Time:                                                                                                                                                                                                                                          | 2:17PM      | MACP LEVEL -1         |
| Street Name              | 2ND ST                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1130 |
| Survey Purpose           | ROUTINE ASSESSMENT                  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE 2ND ST AND MONTEREY BLVD MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                            | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                            | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                            | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                     |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 5/25/2017          | Inspection Time:                                                                                                                                                                                                                                          | 6:34PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | MONTEREY BLVD      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1131       |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>F</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/17/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 10:41AM     | MACP LEVEL -1         |
| Street Name                                  | CULPER CT                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1132 |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | WHERE CULPER CT AND 2ND ST MEET |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                 |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>2</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>              | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>3</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         | NO CHIMNEY                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>3</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             | NO CONE                         |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>2</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             | CRACKS                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>              | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b>             |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/14/2017                             |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:09PM           |               |
| Street Name                                  | 2ND ST                                |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                    |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | ON 2ND ST BEFORE CULPER CT GOING WEST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MH-1132A      |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A           |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>Y</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>4</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                 | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                  | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                             | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                              | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                            | <b>6</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             | LIGHT ROOTS IN TROUGH                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 4/14/2017                                                    | Inspection Time:                                                                                                                                                                                                                                          | 2:14PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | 2ND ST                                                       | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1132C      |
| Survey Purpose           | ROUTINE ASSESSMENT                                           | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       | ON 2ND ST NEXT TO APARTMENTS BETWEEN CULPER CT AND VALLEY DR |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>                                             | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>Y</b>                                                     | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>                                                    | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:             | <b>AMH</b>                                                   | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>4</b>                                                     | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:                                                        | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:                                                         | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition                                                    | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>                                                    | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>1</b>                                                     | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>1</b>                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>1</b>                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>1</b>                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>1</b>                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>1</b>                                                     | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material                                                     | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps                                                   | <b>7</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         |                                                              |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                      |                  |             |                        |
|--------------------|----------------------|------------------|-------------|------------------------|
| Inspection Date:   | 4/14/2017            | Inspection Time: | 2:19PM      | MACP LEVEL -1          |
| Street Name        | 2ND ST               | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-1132D |
| Survey Purpose     | ROUTINE ASSESSMENT   | MACP #           | U-1209-6134 | Field Book Page: N/A   |
| Location Comments: | 2ND ST AND VALLEY DR |                  |             | CITY: HERMOSA BEACH    |
|                    |                      |                  |             |                        |

| OBSERVATION              | CODE TYPE  | CODE                                                                                                                                                                                                                                                      |
|--------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b> | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>5</b>   | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>   | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>   | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |            |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |            |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |            |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |            |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>2</b>   | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>10</b>  |                                                                                                                                                                                                                                                           |
| General Comments         |            |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                 |                                                                                                                                                                                                                                                           |             |                        |
|--------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| Inspection Date:         | 4/17/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 10:52AM     | MACP LEVEL -1          |
| Street Name              | HERONDO ST                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1132F |
| Survey Purpose           | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:       | OFF OF HERONDO ST AND VALLEY DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
| <b>OBSERVATION</b>       |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Location Code            | <b>D</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status        | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                        |
| Access Type:             | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:            | <b>4</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover Type:              | <b>5</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
| Fit:                     | <b>1</b>                        | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
| Condition                | <b>1</b>                        | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring    | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition         | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments     |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment         |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition          | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment         |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition         | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments   |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition        | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments |                                 |                                                                                                                                                                                                                                                           |             |                        |
| Steps: Material          | <b>2</b>                        | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
| # of Steps               | <b>9</b>                        |                                                                                                                                                                                                                                                           |             |                        |
| General Comments         |                                 |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|-----------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM             |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                              | 4/17/2017                                                   | Inspection Time:                                                                                                                                                                                                                                          | 11:06AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                   | HERONDO ST                                                  | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | MH-1132G      |
| Survey Purpose                                | ROUTINE ASSESSMENT                                          | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                            | SIDEWALK OFF HERONDO ST BETWEEN VALLEY DR AND MONTEREY BLVD |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                               |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                            | <b>CODE TYPE</b>                                            | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                 | <b>F</b>                                                    | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                             | <b>SI</b>                                                   | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                  | <b>AMH</b>                                                  | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                 | <b>2</b>                                                    | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                         | Type:                                                       | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                               | Fit:                                                        | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                               | Condition                                                   | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                         | <b>NA</b>                                                   | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                              | <b>1</b>                                                    | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                             | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                          |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                               | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                              |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                               | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                              |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                              | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                        |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                             | <b>1</b>                                                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                      |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                        | Material                                                    | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                               | # of Steps                                                  | <b>14</b>                                                                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| General Comments                              |                                                             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017                                     | Inspection Time:                                                                                                                                                                                                                                          | 11:11AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | HERONDO ST                                    | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1132H      |
| Survey Purpose                               | ROUTINE ASSESSMENT                            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | SIDEWALK OFF HERONDO ST EAST OF MONTEREY BLVD |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                         | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>2</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | <b>ROOTS</b>                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>2</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | <b>ROOTS</b>                                  |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                                      | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                                    | <b>14</b>                                                                                                                                                                                                                                                 | <b>CORRODED</b>                                                                                                               |                  |               |
| General Comments                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
|----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Inspection Date:                             | 4/14/2017                                     | Inspection Time:                                                                                                                                                                                                                                          | 1:59PM                                                                                                                        | MACP LEVEL -1        |
| Street Name                                  | CULPER CT                                     | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #: MH-1133 |
| Survey Purpose                               | ROUTINE ASSESSMENT                            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A |
| Location Comments:                           | MIDDLE OF CULPER CT BETWEEN 4TH ST AND 2ND ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH  |
|                                              |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                      |
| Location Code                                | <b>F</b>                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                      |
| Inspection Status                            | <b>SI</b>                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                      |
| Access Type:                                 | <b>AMH</b>                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                      |
| Surface Type:                                | <b>2</b>                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                      |
| Cover                                        | Type:                                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                      |
|                                              | Fit:                                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                      |
|                                              | Condition                                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                      |
| Cover Adjustment Ring                        | <b>NA</b>                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                      |
| Frame: Condition                             | <b>1</b>                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                      |
| Chimney Condition                            | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Chimney O&M Comments                         |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Cone: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Cone O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Wall: Condition                              | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Wall O&M Comment                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Bench: Condition                             | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Bench Deffect Comments                       |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Channel Condition                            | <b>1</b>                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                      |
| Channel Deffect Comments                     |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |
| Steps:                                       | Material                                      | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                      |
|                                              | # of Steps                                    | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                      |
| General Comments                             |                                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                      |



**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/14/2017                      | Inspection Time:                                                                                                                                                                                                                                          | 1:55PM      | MACP LEVEL -1         |
| Street Name              | CULPER CT                      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1134 |
| Survey Purpose           | ROUTINE ASSESSMENT             | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | CORNER OF CULPER CT AND 4TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>F</b>                       | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                      | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                     | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                       | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                      | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                       | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                      | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                       | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                | CRACK                                                                                                                                                                                                                                                     |             |                       |
| Wall: Condition          | <b>2</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                       | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                       |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/30/2017          | Inspection Time:                                                                                                                                                                                                                                          | 3:42AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MONTEREY BLVD      | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1135       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           |                    |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>F</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>2</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            |                    | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                          |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/17/2017                                | Inspection Time:                                                                                                                                                                                                                                          | 7:44AM      | MACP LEVEL -1         |
| Street Name              | BAYVIEW DR                               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1136 |
| Survey Purpose           | ROUTINE ASSESSMENT                       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | FIRST MH ON BAYVIEW DR JUST ABOVE 2ND ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                 | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>3</b>                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                          |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>                                | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>                                 |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                          |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/17/2017                     |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 7:39AM           |               |
| Street Name                                  | MANHATTAN AVE                 |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT            |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | MANHATTAN AVE AND 1ST ST MEET |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1137       |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>              | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                         | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                          | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                     | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>3</b>                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                      | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                    | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                               |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                               |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/17/2017                                                     | Inspection Time:                                                                                                                                                                                                                                          | 10:02AM     | MACP LEVEL -1         |
| Street Name              | MANHATTAN AVE                                                 | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1138 |
| Survey Purpose           | ROUTINE ASSESSMENT                                            | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | WHERE MANHATTAN AVE AND 2ND ST MEET BETWEEN SIDEWALK AND YARD |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                               |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>Y</b>                                                      | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                                     | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                                    | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>4</b>                                                      | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                                      | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                                     | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                                      | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                               |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                               |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                               |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                               |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                                      | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                               |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                                      | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>1</b>                                                      | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                                               |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 4/12/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:13AM     | MACP LEVEL -1         |
| Street Name                                  | BEACH DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1140 |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | 2ND ST AND BEACH DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                     |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>10</b>     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>       | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                     |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>NA</b>  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>0</b> |                                                                                                                                                                                                                                                           |             |                       |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                       |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                       |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/12/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 10:08AM     | MACP LEVEL -1          |
| Street Name                                  | BEACH DR                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1141X |
| Survey Purpose                               | ROUTINE ASSESSMENT                    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | ON BEACH DR BETWEEN 3RD CT AND 3RD ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                                       |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>                        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>                         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>                    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         |                                       |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                                       |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                                       |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                                       |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>                    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>                   |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                                       |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/12/2017           | Inspection Time:                                                                                                                                                                                                                                          | 10:19AM                                                                                                                       |                  | MACP LEVEL -1 |
| Street Name                                  | BEACH DR            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1142       |
| Survey Purpose                               | ROUTINE ASSESSMENT  | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | BEACH DR AND 1ST ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>    | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>            | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>           | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>            | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:               | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition           | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>           | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         | NO CHIMNEY          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>3</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             | NO CONE             |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material            | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps          | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                     |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                            |                                                                                                                                                                                                                                                           |             |                        |
|----------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                            |                                                                                                                                                                                                                                                           |             |                        |
| Inspection Date:                             | 4/12/2017                  | Inspection Time:                                                                                                                                                                                                                                          | 10:26AM     | MACP LEVEL -1          |
| Street Name                                  | BEACH DR                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1142A |
| Survey Purpose                               | ROUTINE ASSESSMENT         | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A   |
| Location Comments:                           | BEACH DR JUST BELOW 1ST ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH    |
|                                              |                            |                                                                                                                                                                                                                                                           |             |                        |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>           | <b>CODE</b>                                                                                                                                                                                                                                               |             |                        |
| Location Code                                | <b>C</b>                   | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                        |
| Inspection Status                            | <b>SI</b>                  | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                        |
| Access Type:                                 | <b>AMH</b>                 | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                        |
| Surface Type:                                | <b>1</b>                   | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                        |
| Cover                                        | Type: <b>5</b>             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                        |
|                                              | Fit: <b>1</b>              | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                        |
|                                              | Condition <b>1</b>         | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                        |
| Cover Adjustment Ring                        | <b>NA</b>                  | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                        |
| Frame: Condition                             | <b>1</b>                   | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                        |
| Chimney Condition                            | <b>3</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Chimney O&M Comments                         | NO CHIMNEY                 |                                                                                                                                                                                                                                                           |             |                        |
| Cone: Condition                              | <b>3</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Cone O&M Comment                             | NO CONE                    |                                                                                                                                                                                                                                                           |             |                        |
| Wall: Condition                              | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Wall O&M Comment                             |                            |                                                                                                                                                                                                                                                           |             |                        |
| Bench: Condition                             | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Bench Deffect Comments                       |                            |                                                                                                                                                                                                                                                           |             |                        |
| Channel Condition                            | <b>1</b>                   | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                        |
| Channel Deffect Comments                     |                            |                                                                                                                                                                                                                                                           |             |                        |
| Steps:                                       | Material <b>NA</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                        |
|                                              | # of Steps <b>0</b>        |                                                                                                                                                                                                                                                           |             |                        |
| General Comments                             |                            |                                                                                                                                                                                                                                                           |             |                        |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                       |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                       |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 4/12/2017             | Inspection Time:                                                                                                                                                                                                                                          | 10:21AM     | MACP LEVEL -1        |
| Street Name                                  | TH STRAND             | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1143 |
| Survey Purpose                               | ROUTINE ASSESSMENT    | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | 1ST ST AND THE STRAND |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                       |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>      | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>              | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>             | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>2</b>              | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>        | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>         | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>    | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>             | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>3</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         | <b>NO CHIMNEY</b>     |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                       |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                       |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                       |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>NA</b>    | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>0</b>   |                                                                                                                                                                                                                                                           |             |                      |
| General Comments                             |                       |                                                                                                                                                                                                                                                           |             |                      |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                          |                  |             |                       |
|--------------------|------------------------------------------|------------------|-------------|-----------------------|
| Inspection Date:   | 5/2/2017                                 | Inspection Time: | 2:44PM      | MACP LEVEL -1         |
| Street Name        | THE STRAND                               | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-1144 |
| Survey Purpose     | ROUTINE ASSESSMENT                       | MACP #           | U-1209-6134 | Field Book Page: N/A  |
| Location Comments: | HERONDO ST AND THE STRAND IT'S A WALKWAY |                  |             | CITY: HERMOSA BEACH   |
|                    |                                          |                  |             |                       |
|                    |                                          |                  |             |                       |

| OBSERVATION              | CODE TYPE         | CODE                                                                                                                                                                                                                                                      |
|--------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>AMH</b>        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>          | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>3</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     | <b>NO CHIMNEY</b> |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>3</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         | <b>NO CONE</b>    |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                   |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                   |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |                   |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>         | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>          |                                                                                                                                                                                                                                                           |
| General Comments         |                   |                                                                                                                                                                                                                                                           |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                                              |                  |             |                        |
|--------------------|----------------------------------------------|------------------|-------------|------------------------|
| Inspection Date:   | 5/1/2017                                     | Inspection Time: | 2:55PM      | MACP LEVEL -1          |
| Street Name        | TH STRAND                                    | Survey By:       | A.SOUZA     | MH/ACCESS #.: MH-1144A |
| Survey Purpose     | ROUTINE ASSESSMENT                           | MACP #           | U-1209-6134 | Field Book Page: N/A   |
| Location Comments: | THE STRAND AND LYNDON ST WEST OF HERMOSA AVE |                  |             | CITY: HERMOSA BEACH    |
|                    |                                              |                  |             |                        |
|                    |                                              |                  |             |                        |

| OBSERVATION              | CODE TYPE                                 | CODE                                                                                                                                                                                                                                                      |
|--------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>F</b>                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |
| Access Type:             | <b>AMH</b>                                | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>2</b>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>10</b>                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>1</b>                                  | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>3</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     | <b>NO CHIMNEY</b>                         |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>3</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         | <b>NO CONE</b>                            |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                                           |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                                           |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>1</b>                                  | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |                                           |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>                                  |                                                                                                                                                                                                                                                           |
| General Comments         | <b>LOCATION IS WALKWAY NEAR THE BEACH</b> |                                                                                                                                                                                                                                                           |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 5/31/2017                       | Inspection Time:                                                                                                                                                                                                                                          | 3:38AM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | MANHATTAN AVE                   | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1145       |
| Survey Purpose                               | ROUTINE ASSESSMENT              | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | MANHATTAN AVE JUST BELOW 6TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                        | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                       | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CANT OPEN (SD)SURCHARGED DEBRIS                                                   |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                      | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                        | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                           | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                            | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                       | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                       | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                        | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                        | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                        | <b>2</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                      | <b>3</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments                             |                                 |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 3/23/2017                            |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 9:52AM           |               |
| Street Name                                  | 25TH ST                              |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |               |
| Survey Purpose                               | ROUTINE ASSESSMENT                   |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |               |
| Location Comments:                           | INTERSECTION OF 25TH ST AND OZONE CT |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | MACP LEVEL -1 |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | MH-1152       |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | N/A           |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  | HERMOSA BEACH |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                     | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:                                | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition                            | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material                             | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps                           | <b>7</b>                                                                                                                                                                                                                                                  | I BELIEVE IST METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                                      |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                        |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 3/22/2017                              | Inspection Time:                                                                                                                                                                                                                                          | 3:35PM      | MACP LEVEL -1         |
| Street Name              | 25TH ST                                | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1153 |
| Survey Purpose           | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF MYRTLE AVE ANE 25TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                             | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>5</b>                               | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                               | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                               | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                               | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                               | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                        |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>3</b>                               | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                               | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                       |
| General Comments         |                                        |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 5/2/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:10AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | HERMOSA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1154 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON HERMOSA AVE ACROSS FROM 20TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                           | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                         | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                       |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |             |                      |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Inspection Date:                             | 5/2/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 9:02AM      | MACP LEVEL -1        |
| Street Name                                  | HERMOSA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: MH-1155 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A |
| Location Comments:                           | ON HERMOSA AVE ACROSS FROM 18TH ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH  |
|                                              |                                    |                                                                                                                                                                                                                                                           |             |                      |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |             |                      |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                      |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                      |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                      |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                      |
| Cover                                        | Type: <b>5</b>                     | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                      |
|                                              | Fit: <b>1</b>                      | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                      |
|                                              | Condition <b>1</b>                 | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                      |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                      |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                      |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                      |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |             |                      |
| Steps:                                       | Material <b>3</b>                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                      |
|                                              | # of Steps <b>4</b>                | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                                                                                                                                                |             |                      |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |             |                      |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
|----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Inspection Date:                             | 5/2/2017                           | Inspection Time:                                                                                                                                                                                                                                          | 8:58AM                                                                                                                        | MACP LEVEL -1         |
| Street Name                                  | HERMOSA AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.: MH-1156 |
| Survey Purpose                               | ROUTINE ASSESSMENT                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: N/A  |
| Location Comments:                           | ON HERMOSA AVE ACROSS FROM 17TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY: HERMOSA BEACH   |
|                                              |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                       |
| Location Code                                | <b>C</b>                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                       |
| Inspection Status                            | <b>SI</b>                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                       |
| Access Type:                                 | <b>AMH</b>                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                       |
| Surface Type:                                | <b>1</b>                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                       |
| Cover                                        | Type:                              | <b>5</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                       |
|                                              | Fit:                               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                       |
|                                              | Condition                          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                       |
| Cover Adjustment Ring                        | <b>NA</b>                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                       |
| Frame: Condition                             | <b>1</b>                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                       |
| Chimney Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Chimney O&M Comments                         |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Cone: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Cone O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Wall: Condition                              | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Wall O&M Comment                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Bench: Condition                             | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Bench Deffect Comments                       |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Channel Condition                            | <b>1</b>                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                       |
| Channel Deffect Comments                     |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |
| Steps:                                       | Material                           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                       |
|                                              | # of Steps                         | <b>5</b>                                                                                                                                                                                                                                                  | I BELIEVE THERE METAL WITH PLASTIC COATING                                                                                    |                       |
| General Comments                             |                                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Inspection Date:                             | 4/5/2017           | Inspection Time:                                                                                                                                                                                                                                          | 2:59PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name                                  | 15TH CT            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #:     | MH-1158       |
| Survey Purpose                               | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:                           | ON 15TH CT         |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>   | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code                                | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status                            | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |               |
| Access Type:                                 | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:                                | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                                        | Type:              | <b>10</b>                                                                                                                                                                                                                                                 | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                                              | Fit:               | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                                              | Condition          | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring                        | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition                             | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments                         |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|                                              |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition                              | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition                             | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments                       |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition                            | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments                     |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                                       | Material           | <b>3</b>                                                                                                                                                                                                                                                  | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                                              | # of Steps         | <b>2</b>                                                                                                                                                                                                                                                  | I BELIEVE ITS METAL WITH PLASTIC COATING                                                                                      |                  |               |
| General Comments                             |                    |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/5/2017           | Inspection Time:                                                                                                                                                                                                                                          | 3:03PM      | MACP LEVEL -1         |
| Street Name              | 15TH CT            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1159 |
| Survey Purpose           | ROUTINE ASSESSMENT | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | NEAR HERMOSA AVE   |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>NA</b>          | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>0</b>           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                    |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                                                    |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/6/2017                                                           | Inspection Time:                                                                                                                                                                                                                                          | 8:08AM      | MACP LEVEL -1         |
| Street Name              | 13TH CT                                                            | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1160 |
| Survey Purpose           | ROUTINE ASSESSMENT                                                 | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | MIDDLE OF 13TH CT BETWEEN PIER PLAZA AND 13TH ST                   |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                                                           | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                                                          | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |             |                       |
| Access Type:             | <b>AMH</b>                                                         | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>1</b>                                                           | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                                                          | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                                                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                                                           | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                                                          | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                                                           | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                                                    |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                                                           | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>3</b>                                                           |                                                                                                                                                                                                                                                           |             |                       |
| General Comments         | SIDE LATERAL IN MH HAS NO TROUGH JUST DUMPS ON BENCH BEFORE TROUGH |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                   |                                                                                                                                                                                                                                                           |             |                       |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Inspection Date:                             | 5/7/2017                          | Inspection Time:                                                                                                                                                                                                                                          | 11:58AM     | MACP LEVEL -1         |
| Street Name                                  | 18TH ST                           | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1165 |
| Survey Purpose                               | ROUTINE ASSESSMENT                | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:                           | ON 18TH BETWEEN PCH AND RHODES ST |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
|                                              |                                   |                                                                                                                                                                                                                                                           |             |                       |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                  | <b>CODE</b>                                                                                                                                                                                                                                               |             |                       |
| Location Code                                | <b>C</b>                          | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status                            | <b>SI</b>                         | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:                                 | <b>AMH</b>                        | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:                                | <b>1</b>                          | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover                                        | Type: <b>5</b>                    | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
|                                              | Fit: <b>1</b>                     | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
|                                              | Condition <b>1</b>                | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring                        | <b>NA</b>                         | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition                             | <b>1</b>                          | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments                         |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition                              | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment                             |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition                             | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments                       |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition                            | <b>1</b>                          | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments                     |                                   |                                                                                                                                                                                                                                                           |             |                       |
| Steps:                                       | Material <b>3</b>                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
|                                              | # of Steps <b>5</b>               | I BELIEVE THERE METAL WITH A PLASTIC COATING                                                                                                                                                                                                              |             |                       |
| General Comments                             |                                   |                                                                                                                                                                                                                                                           |             |                       |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                                      |                                                                                                                                                                                                                                                           |             |                       |
|--------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Inspection Date:         | 4/6/2017                             | Inspection Time:                                                                                                                                                                                                                                          | 7:48AM      | MACP LEVEL -1         |
| Street Name              | 13TH ST                              | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #.: MH-1169 |
| Survey Purpose           | ROUTINE ASSESSMENT                   | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A  |
| Location Comments:       | INTERSECTION OF 13TH ST AND BEACH DR |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH   |
| <b>OBSERVATION</b>       |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Location Code            | <b>C</b>                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                       |
| Inspection Status        | <b>SI</b>                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                       |
| Access Type:             | <b>AMH</b>                           | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                       |
| Surface Type:            | <b>2</b>                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                       |
| Cover Type:              | <b>10</b>                            | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                       |
| Fit:                     | <b>1</b>                             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                       |
| Condition                | <b>1</b>                             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                       |
| Cover Adjustment Ring    | <b>NA</b>                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                       |
| Frame: Condition         | <b>1</b>                             | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                       |
| Chimney Condition        | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Chimney O&M Comments     |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Cone: Condition          | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Cone O&M Comment         |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Wall: Condition          | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Wall O&M Comment         |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Bench: Condition         | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Bench Deffect Comments   |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Channel Condition        | <b>1</b>                             | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                       |
| Channel Deffect Comments |                                      |                                                                                                                                                                                                                                                           |             |                       |
| Steps: Material          | <b>2</b>                             | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                       |
| # of Steps               | <b>2</b>                             | <b>CORRODED</b>                                                                                                                                                                                                                                           |             |                       |
| General Comments         |                                      |                                                                                                                                                                                                                                                           |             |                       |

| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                        |                                                                                                                                                                                                                                                           |             |                                 |
|----------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                        |                                                                                                                                                                                                                                                           |             |                                 |
| Inspection Date:                             | 4/3/2017                               | Inspection Time:                                                                                                                                                                                                                                          | 10:45AM     | MACP LEVEL -1                   |
| Street Name                                  | SPRINGFIELD AVE                        | Survey By:                                                                                                                                                                                                                                                | A.SOUZA     | MH/ACCESS #: CO SPRINGFIELD AVE |
| Survey Purpose                               | ROUTINE ASSESSMENT                     | MACP #                                                                                                                                                                                                                                                    | U-1209-6134 | Field Book Page: N/A            |
| Location Comments:                           | END OF THE CULDISAC ON SPRINGFIELD AVE |                                                                                                                                                                                                                                                           |             | CITY: HERMOSA BEACH             |
|                                              |                                        |                                                                                                                                                                                                                                                           |             |                                 |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                       | <b>CODE</b>                                                                                                                                                                                                                                               |             |                                 |
| Location Code                                | <b>C</b>                               | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |             |                                 |
| Inspection Status                            | <b>SI</b>                              | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |             |                                 |
| Access Type:                                 | <b>ACOM</b>                            | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |             |                                 |
| Surface Type:                                | <b>1</b>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |             |                                 |
| Cover                                        | Type: <b>8</b>                         | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |             |                                 |
|                                              | Fit: <b>1</b>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |             |                                 |
|                                              | Condition <b>1</b>                     | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |             |                                 |
| Cover Adjustment Ring                        | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |             |                                 |
| Frame: Condition                             | <b>NA</b>                              | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |             |                                 |
| Chimney Condition                            | <b>NA</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                 |
| Chimney O&M Comments                         |                                        |                                                                                                                                                                                                                                                           |             |                                 |
| Cone: Condition                              | <b>NA</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                 |
| Cone O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                                 |
| Wall: Condition                              | <b>NA</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                 |
| Wall O&M Comment                             |                                        |                                                                                                                                                                                                                                                           |             |                                 |
| Bench: Condition                             | <b>NA</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                 |
| Bench Deffect Comments                       |                                        |                                                                                                                                                                                                                                                           |             |                                 |
| Channel Condition                            | <b>NA</b>                              | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |             |                                 |
| Channel Deffect Comments                     |                                        |                                                                                                                                                                                                                                                           |             |                                 |
| Steps:                                       | Material <b>NA</b>                     | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |             |                                 |
|                                              | # of Steps <b>0</b>                    |                                                                                                                                                                                                                                                           |             |                                 |
| General Comments                             |                                        |                                                                                                                                                                                                                                                           |             |                                 |



| INNERLINE ENGINEERING CITY OF: HERMOSA BEACH |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
|----------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|
| MANHOLE CONDITION ASSESSMENT FORM            |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
| Inspection Date:                             | 4/3/2017                                                  |                                                                                                                                                                                                                                                           | Inspection Time:                                                                                                              | 2:25PM           |                    |
| Street Name                                  | VALLEY PARK AVE                                           |                                                                                                                                                                                                                                                           | Survey By:                                                                                                                    | A.SOUZA          |                    |
| Survey Purpose                               | ROUTINE ASSESSMENT                                        |                                                                                                                                                                                                                                                           | MACP #                                                                                                                        | U-1209-6134      |                    |
| Location Comments:                           | AT THE END OF THE STREET ON VALLEY PARK AVE BELOW 18TH ST |                                                                                                                                                                                                                                                           |                                                                                                                               | MH/ACCESS #:     | CO VALLEY PARK AVE |
|                                              |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | Field Book Page: | N/A                |
|                                              |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH      |
|                                              |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
|                                              |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
| <b>OBSERVATION</b>                           | <b>CODE TYPE</b>                                          | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |                    |
| Location Code                                | <b>C</b>                                                  | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |                    |
| Inspection Status                            | <b>SI</b>                                                 | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                 |                                                                                                                               |                  |                    |
| Access Type:                                 | <b>ACOM</b>                                               | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |                    |
| Surface Type:                                | <b>1</b>                                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |                    |
| Cover                                        | Type:                                                     | <b>8</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |                    |
|                                              | Fit:                                                      | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |                    |
|                                              | Condition                                                 | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |                    |
| Cover Adjustment Ring                        | <b>NA</b>                                                 | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |                    |
| Frame: Condition                             | <b>NA</b>                                                 | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |                    |
| Chimney Condition                            |                                                           | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |                    |
| Chimney O&M Comments                         |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
|                                              |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
| Cone: Condition                              | <b>NA</b>                                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |                    |
| Cone O&M Comment                             |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
| Wall: Condition                              | <b>NA</b>                                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |                    |
| Wall O&M Comment                             |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
| Bench: Condition                             | <b>NA</b>                                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |                    |
| Bench Deffect Comments                       |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
| Channel Condition                            | <b>NA</b>                                                 | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |                    |
| Channel Deffect Comments                     |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |
| Steps:                                       | Material                                                  | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |                    |
|                                              | # of Steps                                                | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |                    |
| General Comments                             |                                                           |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |                    |

**INNERLINE ENGINEERING CITY OF:: HERMOSA BEACH**  
**MANHOLE CONDITION ASSESSMENT FORM**

|                          |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
|--------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Inspection Date:         | 3/24/2017                | Inspection Time:                                                                                                                                                                                                                                          | 2:17PM                                                                                                                        |                  | MACP LEVEL -1 |
| Street Name              | MARLITA ST               | Survey By:                                                                                                                                                                                                                                                | A.SOUZA                                                                                                                       | MH/ACCESS #.:    | C/O-A         |
| Survey Purpose           | ROUTINE ASSESSMENT       | MACP #                                                                                                                                                                                                                                                    | U-1209-6134                                                                                                                   | Field Book Page: | N/A           |
| Location Comments:       | ON HOME OWNERS DRIVE WAY |                                                                                                                                                                                                                                                           |                                                                                                                               | CITY             | HERMOSA BEACH |
|                          |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| <b>OBSERVATION</b>       | <b>CODE TYPE</b>         | <b>CODE</b>                                                                                                                                                                                                                                               |                                                                                                                               |                  |               |
| Location Code            | <b>Y</b>                 | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |                                                                                                                               |                  |               |
| Inspection Status        | <b>SI</b>                | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURRIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |                                                                                                                               |                  |               |
| Access Type:             | <b>ACOM</b>              | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |                                                                                                                               |                  |               |
| Surface Type:            | <b>C</b>                 | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |                                                                                                                               |                  |               |
| Cover                    | Type:                    | <b>8</b>                                                                                                                                                                                                                                                  | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED |                  |               |
|                          | Fit:                     | <b>1</b>                                                                                                                                                                                                                                                  | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                        |                  |               |
|                          | Condition                | <b>1</b>                                                                                                                                                                                                                                                  | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE               |                  |               |
| Cover Adjustment Ring    | <b>NA</b>                | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |                                                                                                                               |                  |               |
| Frame: Condition         | <b>NA</b>                | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |                                                                                                                               |                  |               |
| Chimney Condition        | <b>NA</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Chimney O&M Comments     |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Cone: Condition          | <b>NA</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Cone O&M Comment         |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Wall: Condition          | <b>NA</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Wall O&M Comment         |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Bench: Condition         | <b>NA</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Bench Deffect Comments   |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Channel Condition        | <b>NA</b>                | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |                                                                                                                               |                  |               |
| Channel Deffect Comments |                          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |
| Steps:                   | Material                 | <b>NA</b>                                                                                                                                                                                                                                                 | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                             |                  |               |
|                          | # of Steps               | <b>0</b>                                                                                                                                                                                                                                                  |                                                                                                                               |                  |               |
| General Comments         | <b>CLEANOUT</b>          |                                                                                                                                                                                                                                                           |                                                                                                                               |                  |               |

**INNERLINE ENGINEERING CITY OF: HERMOSA BEACH  
MANHOLE CONDITION ASSESSMENT FORM**

|                    |                          |                  |             |                  |               |
|--------------------|--------------------------|------------------|-------------|------------------|---------------|
| Inspection Date:   | 3/24/2017                | Inspection Time: | 2:21PM      |                  | MACP LEVEL -1 |
| Street Name        | MARLITA ST               | Survey By:       | A.SOUZA     | MH/ACCESS #.:    | C/O-B         |
| Survey Purpose     | ROUTINE ASSESSMENT       | MACP #           | U-1209-6134 | Field Book Page: | N/A           |
| Location Comments: | ON HOME OWNERS DRIVE WAY |                  |             | CITY             | HERMOSA BEACH |
|                    |                          |                  |             |                  |               |

| OBSERVATION              | CODE TYPE                                                            | CODE                                                                                                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Code            | <b>Y</b>                                                             | (A)-PRIMARY MAJOR ROAD (B)-SECONDARY ROADS (C.) LOCAL STREET (D)EASEMENT (E)WOODS (F) SIDEWALK (G) PARKING LOG (H) ALLEY (I) DITCH (J) BUILDING (K) CREEK (L) RAILWAY (M) AIRPORT (N) LEVEE/FLOODWALL (O) DAM (P) LEVEE / PUMP STATION (Y) YARD (Z) OTHER |
| Inspection Status        | <b>SI</b>                                                            | (DI)ENTRY INSPECTION (SI) FROM SURFACE INSPECTION (RI) REMOTE-USE OF REMOTE VISUAL EQUIP (BM)BURIED MH (NA) NO ACCESS (NF) NOT FOUND (NI) HIGH TRAFFIC CANT INSPEC (NO) CAN'T OPEN (SD)SURCHARGED DEBRIS                                                  |
| Access Type:             | <b>ACOM</b>                                                          | (ACB) CATCH BASIN (ACOH) CLEANOUT HOUSE (ACOM) CLEANOUT MAINLINE (ACOP) CLEANOUT PROPERTY (AJB) JUNCTION BOX (AM) METER (AMH) MANHOLE (AOC) OTHER SPECIAL STRUCTURE (AWA )WASTE WATER ACCESS (AWW) WET WELL                                               |
| Surface Type:            | <b>C</b>                                                             | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) GRASS / DIRT 5) OTHER                                                                                                                                                                                                 |
| Cover Type:              | <b>8</b>                                                             | 1.BOLTED 2.GASKET 3.SOLID 4.INNER-COVER 5.LOCKING 6.HATCH-SINGLE 7.HATCH-DOUBLE 8.LAMPHOLE 9.REMOVABLE-CENTER-COVER 10.VENTED                                                                                                                             |
| Fit:                     | <b>1</b>                                                             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING                                                                                                                                                                    |
| Condition                | <b>1</b>                                                             | 1.SOUND 2.BOLT MISSING 3.BORKEN 4.CORRED (PITTED) 5.CRACKED 6.MISSING 7.RESTRAINT-MISSING 8.RESTRAINT-DEFECTIVE                                                                                                                                           |
| Cover Adjustment Ring    | <b>NA</b>                                                            | 1.SOUND 2.BROKEN 3.CORRODED (PITTED) 4.CRACKED 5.LEAKING 6.POOR INSTALLATION                                                                                                                                                                              |
| Frame: Condition         | <b>NA</b>                                                            | 1.SOUND 2.BROKEN 3.COATED 4.CORRODED (PITTED / WORN) 5.CRACKED 6.MISSING                                                                                                                                                                                  |
| Chimney Condition        | <b>NA</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Chimney O&M Comments     |                                                                      |                                                                                                                                                                                                                                                           |
|                          |                                                                      |                                                                                                                                                                                                                                                           |
| Cone: Condition          | <b>NA</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Cone O&M Comment         |                                                                      |                                                                                                                                                                                                                                                           |
| Wall: Condition          | <b>NA</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Wall O&M Comment         |                                                                      |                                                                                                                                                                                                                                                           |
| Bench: Condition         | <b>NA</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Bench Deffect Comments   |                                                                      |                                                                                                                                                                                                                                                           |
| Channel Condition        | <b>NA</b>                                                            | 1.SOUND 2.DEFFECTIVE 3.NOT KNOWN                                                                                                                                                                                                                          |
| Channel Deffect Comments |                                                                      |                                                                                                                                                                                                                                                           |
| Steps: Material          | <b>NA</b>                                                            | 1.BRICK 2.METAL 3.PLASTIC 4.OTHER                                                                                                                                                                                                                         |
| # of Steps               | <b>0</b>                                                             |                                                                                                                                                                                                                                                           |
| General Comments         | <b>2 CLEANOUTS NEXT TO EACH OTHER COULD NOT TELL WHICH WAS C/O B</b> |                                                                                                                                                                                                                                                           |

## INNERLINE ENGINEERING

| MARCH COMPLETED MH'S |                                         |          |         |           |         |           |               |           |         |
|----------------------|-----------------------------------------|----------|---------|-----------|---------|-----------|---------------|-----------|---------|
| 3.20.2017            |                                         | 3.21.207 |         | 3.22.2017 |         | 3.23.2017 |               | 3.24.2017 |         |
| 1                    | - 0002                                  | 26       | - 0027  | 40        | - 0023  | 76        | - 0101        | 112       | - 0074  |
| 2                    | - 0003                                  | 27       | - 0043  | 41        | - 0024  | 77        | - 0104        | 113       | - 0075  |
| 3                    | - 0028                                  | 28       | - 0044  | 42        | - 0025  | 78        | - 0105        | 114       | - 0076  |
| 4                    | - 0029                                  | 29       | - 0045  | 43        | - 0026  | 79        | - 0506        | 115       | - 0077  |
| 5                    | - 0030                                  | 30       | - 0070  | 44        | - 0047  | 80        | - 0507        | 116       | - 0078  |
| 6                    | - 0031                                  | 31       | - 0071  | 45        | - 0048  | 81        | - 0508        | 117       | - 0079  |
| 7                    | - 0032                                  | 32       | - 0072  | 46        | - 0049  | 82        | - 0509        | 118       | - 0081  |
| 8                    | - 0033                                  | 33       | - 0073  | 47        | - 0050  | 83        | - 0510        | 119       | - 0081A |
| 9                    | - 0034                                  | 34       | - 0088  | 48        | - 0051  | 84        | - 0512        | 120       | - 0082  |
| 10                   | - 0035                                  | 35       | - 0518  | 49        | - 0052  | 85        | - 0512A       | 121       | - 0082A |
| 11                   | - 0036                                  | 36       | - 0519  | 50        | - 0053  | 86        | - 0513        | 122       | - 0083  |
| 12                   | - 0036A                                 | 37       | - 0520  | 51        | - 0054  | 87        | - 0514        | 123       | - 0084  |
| 13                   | - 0037                                  | 38       | - 0521A | 52        | - 0055  | 88        | - 0515        | 124       | - 0085  |
| 14                   | - 0038                                  | 39       | - 0522A | 53        | - 0103  | 89        | - 0533        | 125       | - 0086  |
| 15                   | - 0039                                  |          |         | 54        | - 0108  | 90        | - 0537        | 126       | - 0540  |
| 16                   | - 0040                                  |          |         | 55        | - 0108A | 91        | - 0582        | 127       | - 0541  |
| 17                   | - 0041                                  |          |         | 56        | - 0109  | 92        | - 0582A       | 128       | - 0542  |
| 18                   | - 0042                                  |          |         | 57        | - 0111  | 93        | - 0584        | 129       | - 0543  |
| 19                   | - 0062                                  |          |         | 58        | - 0112  | 94        | - 0589        | 130       | - 0545  |
| 20                   | - 0063                                  |          |         | 59        | - 0113  | 95        | - 0589A       | 131       | - 0546  |
| 21                   | - 0089                                  |          |         | 60        | - 0114  | 96        | - 0590        | 132       | - 0547  |
| 22                   | - 0090                                  |          |         | 61        | - 0115  | 97        | - 0591        | 133       | - 0548  |
| 23                   | - 0091                                  |          |         | 62        | - 0517  | 98        | - 0591A       | 134       | - 0549  |
| 24                   | - 1034                                  |          |         | 63        | - 0523  | 99        | - 0593        | 135       | - 0550  |
| 25                   | - 1035                                  |          |         | 64        | - 0524  | 100       | - 1037        | 136       | - 0551  |
|                      |                                         |          |         | 65        | - 0526  | 101       | - 1038        | 137       | - 0552  |
|                      |                                         |          |         | 66        | - 0526A | 102       | - 1039        | 138       | - 0554  |
| 148                  | - 0732                                  |          |         | 67        | - 0527  | 103       | - 1042        | 139       | - 0561  |
| 149                  | - 0732A                                 |          |         | 68        | - 0528  | 104       | - 1043        | 140       | - 0562  |
| 150                  | - 0734                                  |          |         | 69        | - 0529  | 105       | - 1044        | 141       | - 0563  |
| 151                  | - 0046-Paved on or not exist            |          |         | 70        | - 0530  | 106       | - 1045        | 142       | - 0564  |
| 152                  | - 0087-Buried or on Property            |          |         | 71        | - 0531  | 107       | - 1046        | 143       | - 0565  |
| 153                  | - 0106-Buried, or Not Exist             |          |         | 72        | - 0532  | 108       | - 1049        | 144       | - 0569  |
| 154                  | - 0516-Buried or Backyard               |          |         | 73        | - 0534  | 109       | - 1050X       | 145       | - 0570  |
| 155                  | - 0521-Buried or on Property            |          |         | 74        | - 0535  | 110       | - 1052        | 146       | - CO A  |
| 156                  | - 0522-Buried or on Property            |          |         | 75        | - 1153  | 111       | - 1152        | 147       | - CO B  |
| 157                  | - 0525-Buried or in Backyard            |          |         |           |         |           |               |           |         |
| 158                  | - 0568-Mayber Under B-ball court        |          |         |           |         |           |               |           |         |
| 159                  | - 0571-Buried, not exist                |          |         |           |         |           |               |           |         |
| 160                  | - 0588-Buried, Not Exsit or on Property |          |         |           |         |           |               |           |         |
| 161                  | - 0868- Buried or Backyard              |          |         |           |         |           |               |           |         |
| 162                  | - 1038A-Buried or Not Exist             |          |         |           |         |           |               |           |         |
| TOTAL MH INSPECTIONS |                                         | 162      |         | RATE=     |         |           | TOTAL BILLING |           | \$ -    |

**CITY OF HERMOSA BEACH  
MANHOLE INSPECTIONS FOR APRIL 2016**

**DAVID EVANS AND ASSOCIATES, INC.**

**INNERLINE ENGINEERING**

|           |         | APRIL COMPLETED MH'S |         |           |         |           |        |           |         |
|-----------|---------|----------------------|---------|-----------|---------|-----------|--------|-----------|---------|
| 4.10.2017 |         | 4.11.2017            |         | 4.12.2017 |         | 4.13.2017 |        | 4.14.2017 |         |
| 178       | - 0122  | 220                  | - 0134  | 260       | - 0157  | 301       | - 0207 | 336       | - 0202  |
| 179       | - 0123  | 221                  | - 0160  | 261       | - 0158  | 302       | - 0209 | 337       | - 0203  |
| 180       | - 0123  | 222                  | - 0160A | 262       | - 0159  | 303       | - 0209 | 338       | - 0204A |
| 181       | - 0124  | 223                  | - 0160B | 263       | - 0161  | 304       | - 0210 | 339       | - 0222  |
| 182       | - 0125  | 224                  | - 0631  | 264       | - 0172  | 305       | - 0211 | 340       | - 0224  |
| 183       | - 0126  | 225                  | - 0633  | 265       | - 0173  | 306       | - 0212 | 341       | - 0225  |
| 184       | - 0126A | 226                  | - 0634  | 266       | - 0174  | 307       | - 0213 | 342       | - 0232A |
| 185       | - 0127  | 227                  | - 0635  | 267       | - 0715  | 308       | - 0214 | 343       | - 0236  |
| 186       | - 0129  | 228                  | - 0637  | 268       | - 0176  | 309       | - 0215 | 344       | - 0241  |
| 187       | - 0130  | 229                  | - 0638  | 269       | - 0258  | 310       | - 0216 | 345       | - 0242  |
| 188       | - 0131  | 230                  | - 0639  | 270       | - 0312  | 311       | - 0217 | 346       | - 0243  |
| 189       | - 0132X | 231                  | - 0643  | 271       | - 0313  | 312       | - 0218 | 347       | - 0244  |
| 190       | - 0133X | 232                  | - 0644  | 272       | - 0316  | 313       | - 0220 | 348       | - 0245  |
| 191       | - 0328  | 233                  | - 0645  | 273       | - 0669  | 314       | - 0221 | 349       | - 0246  |
| 192       | - 0599  | 234                  | - 0645  | 274       | - 0667  | 315       | - 0256 | 350       | - 0247  |
| 193       | - 0708  | 235                  | - 0648  | 275       | - 0678  | 316       | - 0259 | 351       | - 0253  |
| 194       | - 0709  | 236                  | - 0648A | 276       | - 0679  | 317       | - 0260 | 352       | - 0254  |
| 195       | - 0710  | 237                  | - 0648  | 277       | - 0680  | 318       | - 0261 | 353       | - 0255  |
| 196       | - 0718  | 238                  | - 0650  | 278       | - 0681  | 319       | - 0262 | 354       | - 0270  |
| 197       | - 0719  | 239                  | - 0651  | 279       | - 0682  | 320       | - 0263 | 355       | - 0272  |
| 198       | - 0720  | 240                  | - 0653  | 280       | - 0683  | 321       | - 0265 | 356       | - 0274  |
| 199       | - 0812  | 241                  | - 0656A | 281       | - 0703A | 322       | - 0266 | 357       | - 0291  |
| 200       | - 0812A | 242                  | - 0670  | 282       | - 0704  | 323       | - 0268 | 358       | - 0296A |
| 201       | - 0816  | 243                  | - 0671  | 283       | - 0705  | 324       | - 0269 | 359       | - 0299  |
| 202       | - 0816A | 244                  | - 0673  | 284       | - 007   | 325       | - 0275 | 360       | - 0300  |
| 203       | - 0818  | 245                  | - 0675  | 285       | - 1097  | 326       | - 0276 | 361       | - 0301  |
| 204       | - 0818A | 246                  | - 0676  | 286       | - 1097A | 327       | - 0277 | 362       | - 0302  |
| 205       | - 0835  | 247                  | - 0685  | 287       | - 1098  | 328       | - 0279 | 363       | - 0303  |
| 206       | - 0836  | 248                  | - 0686  | 288       | - 1098A | 329       | - 0280 | 364       | - 0304  |
| 207       | - 0837  | 249                  | - 0716X | 289       | - 1099  | 330       | - 0281 | 365       | - 0662  |
| 208       | - 0838  | 250                  | - 0717  | 290       | - 1099A | 331       | - 0282 | 366       | - 0662A |
| 209       | - 0840  | 251                  | - 1063A | 291       | - 1100  | 332       | - 0283 | 367       | - 0663  |
| 210       | - 0841  | 252                  | - 1063B | 292       | - 1100A | 333       | - 0284 | 368       | - 0688A |
| 211       | - 0842  | 253                  | - 1067A | 293       | - 1101  | 334       | - 0285 | 369       | - 0688B |
| 212       | - 0844  | 254                  | - 1068  | 294       | - 1101A | 335       | - 0286 | 370       | - 0688C |
| 213       | - 0844A | 255                  | - 1068A | 295       | - 1102  |           |        | 371       | - 0688D |
| 214       | - 0850  | 256                  | - 1068B | 296       | - 1140  |           |        | 372       | - 1132A |
| 215       | - 0855  | 257                  | - 1069  | 297       | - 1141X |           |        | 373       | - 1132C |
| 216       | - 0861  | 258                  | - 1113  | 298       | - 1142  |           |        | 374       | - 1132D |
| 217       | - 0862  | 259                  | - 1114  | 299       | - 1142A |           |        | 375       | - 1133  |
| 218       | - 0866  |                      |         | 300       | - 1143  |           |        | 376       | - 1134  |
| 219       | - 0867  |                      |         |           |         |           |        |           |         |
|           |         |                      |         |           |         |           |        |           |         |

**CITY OF HERMOSA BEACH  
MANHOLE INSPECTIONS FOR APRIL 2016**

**DAVID EVANS AND ASSOCIATES, INC.**

**INNERLINE ENGINEERING**

| MAY COMPLETED MH'S   |    |          |    |           |       |           |               |           |  |
|----------------------|----|----------|----|-----------|-------|-----------|---------------|-----------|--|
| 5.1.2017             |    | 5.2.2017 |    | 5.16.2017 |       | 5.17.2017 |               | 5.25.2017 |  |
| 1 - 0170             | 24 | - 0101A  | 57 | - 0538    | 68    | - 0204    | 84            | - 0152    |  |
| 2 - 1001             | 25 | - 0121   | 58 | - 0539    | 69    | - 0205    | 85            | - 0201    |  |
| 3 - 1002             | 26 | - 0121A  | 59 | - 0553    | 70    | - 0249    | 86            | - 0223    |  |
| 4 - 1003             | 27 | - 0544   | 60 | - 0566    | 71    | - 0250    | 87            | - 0231    |  |
| 5 - 1004             | 28 | - 0544A  | 61 | - 0567    | 72    | - 0251    | 88            | - 0232    |  |
| 6 - 1005             | 29 | - 1012   | 62 | - 0567A   | 73    | - 0257    | 89            | - 0233    |  |
| 7 - 1006             | 30 | - 1013   | 63 | - 0575    | 74    | - 0278    | 90            | - 0234    |  |
| 8 - 1007             | 31 | - 1014B  | 64 | - 0576    | 75    | - 0290    | 91            | - 0235    |  |
| 9 - 1008             | 32 | - 1014C  | 65 | - 0604    | 76    | - 0615    | 92            | - 0248    |  |
| 10 - 1008A           | 33 | - 1016   | 66 | - 0606    | 77    | - 0616    | 93            | - 0252    |  |
| 11 - 1008B           | 34 | - 1017   | 67 | - 0731    | 78    | - 0617    | 94            | - 0287    |  |
| 12 - 1009            | 35 | - 1018   |    |           | 79    | - 0618    | 95            | - 028     |  |
| 13 - 1010            | 36 | - 1019   |    |           | 80    | - 0659    | 96            | - 0289    |  |
| 14 - 1011            | 37 | - 1020   |    |           | 81    | - 060     | 97            | - 0295    |  |
| 15 - 1105            | 38 | - 1021   |    |           | 82    | - 0661    | 98            | - 0296    |  |
| 16 - 1106            | 39 | - 1022   |    |           | 83    | - 0668    | 99            | - 0297    |  |
| 17 - 1106B           | 40 | - 1023   |    |           |       |           | 100           | - 0298    |  |
| 18 - 1107            | 41 | - 1024   |    |           |       |           | 101           | - 0612    |  |
| 19 - 1108            | 42 | - 1036   |    |           |       |           | 102           | - 0613    |  |
| 20 - 1127            | 43 | - 1054   |    |           |       |           | 103           | - 0687    |  |
| 21 - 1128            | 44 | - 1055   |    |           |       |           | 104           | - 0687A   |  |
| 22 - 1128A           | 45 | - 1070   |    |           |       |           | 105           | - 0687B   |  |
| 23 - 1144A           | 46 | - 1070A  |    |           |       |           | 106           | - 0687C   |  |
|                      | 47 | - 1070B  |    |           |       |           | 107           | - 0688    |  |
|                      | 48 | - 1072   |    |           |       |           | 108           | - 0697    |  |
|                      | 49 | - 1090A  |    |           |       |           | 109           | - 0698    |  |
|                      | 50 | - 1104   |    |           |       |           | 110           | - 1131    |  |
|                      | 51 | - 1129   |    |           |       |           |               |           |  |
|                      | 52 | - 1130   |    |           |       |           |               |           |  |
|                      | 53 | - 1144   |    |           |       |           |               |           |  |
|                      | 54 | - 1154   |    |           |       |           |               |           |  |
|                      | 55 | - 1155   |    |           |       |           |               |           |  |
|                      | 56 | - 1156   |    |           |       |           |               |           |  |
| TOTAL MH INSPECTIONS |    |          |    |           | RATE_ |           | TOTAL BILLING |           |  |

**CITY OF HERMOSA BEACH  
MANHOLE INSPECTIONS FOR APRIL 2016**

**DAVID EVANS AND ASSOCIATES, INC.**

**INNERLINE ENGINEERING**

|           |           | APRIL COMPLETED MH'S |                  |             |          |  |
|-----------|-----------|----------------------|------------------|-------------|----------|--|
| 4.3.2017  |           | 4.4.2017             | 4.5.2017         | 4.6.2017    | 4.7.2017 |  |
| 1 - 0060  | 29 - 0006 | 57 - 0128            | 97 - 0321        | 140 - 0324  |          |  |
| 2 - 0061  | 30 - 0007 | 58 - 1053            | 98 - 0322        | 141 - 0324A |          |  |
| 3 - 0504  | 31 - 0008 | 59 - 1056            | 99 - 0323        | 142 - 0324B |          |  |
| 4 - 0504A | 32 - 0009 | 60 - 1057            | 100 - 0327       | 143 - 0324C |          |  |
| 5 - 0504B | 33 - 0010 | 61 - 1057A           | 101 - 0329       | 144 - 0324D |          |  |
| 6 - 0504C | 34 - 0011 | 62 - 1058            | 102 - 0330       | 145 - 0324E |          |  |
| 7 - 0505  | 35 - 0012 | 63 - 1059            | 103 - 0761       | 146 - 0324F |          |  |
| 8 - 0505A | 36 - 0013 | 64 - 1059A           | 104 - 0762       | 147 - 0325  |          |  |
| 9 - 0594  | 37 - 0014 | 65 - 1059B           | 105 - 0763A-0763 | 148 - 0326  |          |  |
| 10 - 0595 | 38 - 0015 | 66 - 1060            | 106 - 0764       | 149 - 0779  |          |  |
| 11 - 0596 | 39 - 0016 | 67 - 1061            | 107 - 0764A      | 150 - 0780  |          |  |
| 12 - 0597 | 40 - 0021 | 68 - 1062            | 108 - 0764B      | 151 - 0781  |          |  |
| 13 - 0598 | 41 - 0022 | 69 - 1073            | 109 - 0764C      | 152 - 0782A |          |  |
| 14 - 0600 | 42 - 0722 | 70 - 1073A           | 110 - 0765       | 153 - 0792  |          |  |
| 15 - 0601 | 43 - 0723 | 71 - 1074            | 111 - 0767       | 154 - 0793  |          |  |
| 16 - 0735 | 44 - 0724 | 72 - 1076            | 112 - 0771       | 155 - 0794  |          |  |
| 17 - 0737 | 45 - 0725 | 73 - 1076A           | 113 - 0772       | 156 - 0795  |          |  |
| 18 - 0738 | 46 - 0726 | 74 - 1077            | 114 - 0773       | 157 - 0798  |          |  |
| 19 - 0739 | 47 - 1025 | 75 - 1077A           | 115 - 0774       | 158 - 0800  |          |  |
| 20 - 0744 | 48 - 1026 | 76 - 1078            | 116 - 0775       | 159 - 0820  |          |  |
| 21 - 0745 | 49 - 1027 | 77 - 1078A           | 117 - 0776       | 160 - 0821  |          |  |
| 22 - 0746 | 50 - 1028 | 78 - 1079            | 118 - 0777       | 161 - 0822  |          |  |
| 23 - 0747 | 51 - 1029 | 79 - 1079A           | 119 - 0778       | 162 - 0826  |          |  |
| 24 - 0748 | 52 - 1030 | 80 - 1080            | 120 - 0786       | 163 - 0827  |          |  |
| 25 - 0749 | 53 - 1031 | 81 - 1080A           | 121 - 0787       | 164 - 0828  |          |  |
| 26 - 0750 | 54 - 1032 | 82 - 1081            | 122 - 0788       | 165 - 0830  |          |  |
| 27 - C/O  | 55 - 1033 | 83 - 1081A           | 123 - 0790       | 166 - 0831  |          |  |
| 28 - C/O  | 56 - 1086 | 84 - 1082            | 124 - 1090       | 167 - 0832  |          |  |
|           |           | 85 - 1082A           | 125 - 1091       | 168 - 0833  |          |  |
|           |           | 86 - 1083            | 126 - 1093       | 169 - 0847  |          |  |
|           |           | 87 - 1083A           | 127 - 1093A      | 170 - 0848X |          |  |
|           |           | 88 - 1084            | 128 - 1093B      | 171 - 0849  |          |  |
|           |           | 89 - 1084A           | 129 - 1093C      | 172 - 0851  |          |  |
|           |           | 90 - 1085-1085A      | 130 - 1094       | 173 - 0853  |          |  |
|           |           | 91 - 1088            | 131 - 1094A      | 174 - 0854  |          |  |
|           |           | 92 - 1089            | 132 - 1094B      | 175 - 0857  |          |  |
|           |           | 93 - 1092            | 133 - 1095       | 176 - 0858  |          |  |
|           |           | 94 - 1092A           | 134 - 1095A      | 177 - 1165  |          |  |
|           |           | 95 - 1158            | 135 - 1095B      |             |          |  |
|           |           | 96 - 1159            | 136 - 1096       |             |          |  |
|           |           |                      | 137 - 1096A      |             |          |  |
|           |           |                      | 138 - 1160       |             |          |  |
|           |           |                      | 139 - 1169       |             |          |  |

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**CITY OF HERMOSA BEACH  
MANHOLE INSPECTIONS FOR APRIL 2016**

**DAVID EVANS AND ASSOCIATES, INC.**

**INNERLINE ENGINEERING**

| MAY COMPLETED MH'S   |             |             |  |               |  |
|----------------------|-------------|-------------|--|---------------|--|
| 5.30.2017            | 5.31.2017   | 5.31.207    |  |               |  |
| 111 - 0206           | 152 - 0141  | 193 - 0856  |  |               |  |
| 112 - 0219           | 153 - 0141A | 194 - 0856A |  |               |  |
| 113 - 0285A          | 154 - 0153C | 195 - 0863  |  |               |  |
| 114 - 0311           | 155 - 0154A | 196 - 0864  |  |               |  |
| 115 - 0501           | 156 - 0155  | 197 - 0864A |  |               |  |
| 116 - 0603           | 157 - 0156  | 198 - 0864C |  |               |  |
| 117 - 0609           | 158 - 0320  | 199 - 0865  |  |               |  |
| 118 - 0610           | 159 - 0607  | 200 - 1115A |  |               |  |
| 119 - 0611           | 160 - 0608  | 201 - 1115B |  |               |  |
| 120 - 0614           | 161 - 0609  | 202 - 1124  |  |               |  |
| 121 - 0629           | 162 - 0689  | 203 - 1125  |  |               |  |
| 122 - 0632           | 163 - 0690  |             |  |               |  |
| 123 - 0701           | 164 - 0691  |             |  |               |  |
| 124 - 0727           | 165 - 0692  |             |  |               |  |
| 125 - 0728           | 166 - 0694  |             |  |               |  |
| 126 - 0729           | 167 - 0711  |             |  |               |  |
| 127 - 0730           | 168 - 0712  |             |  |               |  |
| 128 - 0743           | 169 - 0713  |             |  |               |  |
| 129 - 0766           | 170 - 0714  |             |  |               |  |
| 130 - 0768           | 171 - 0715  |             |  |               |  |
| 131 - 0769           | 172 - 0736  |             |  |               |  |
| 132 - 0770           | 173 - 0740  |             |  |               |  |
| 133 - 0782           | 174 - 0741  |             |  |               |  |
| 134 - 0783           | 175 - 0742  |             |  |               |  |
| 135 - 0784           | 176 - 0751  |             |  |               |  |
| 136 - 0784A          | 177 - 0751A |             |  |               |  |
| 137 - 0785           | 178 - 0752  |             |  |               |  |
| 138 - 0801           | 179 - 0752A |             |  |               |  |
| 139 - 0802           | 180 - 0752B |             |  |               |  |
| 140 - 0819           | 181 - 0753  |             |  |               |  |
| 141 - 0825           | 182 - 0754  |             |  |               |  |
| 142 - 0859           | 183 - 0755  |             |  |               |  |
| 143 - 0860           | 184 - 0756  |             |  |               |  |
| 144 - 0864           | 185 - 0757  |             |  |               |  |
| 145 - 1115           | 186 - 0758  |             |  |               |  |
| 146 - 1116           | 187 - 0759  |             |  |               |  |
| 147 - 1120           | 188 - 0806  |             |  |               |  |
| 148 - 1135           | 189 - 0807  |             |  |               |  |
| 149 - 1153           | 190 - 0808  |             |  |               |  |
| 150 - 1153B          | 191 - 0809  |             |  |               |  |
| 151 - 1154           | 192 - 0845  |             |  |               |  |
| TOTAL MH INSPECTIONS |             | RATE_       |  | TOTAL BILLING |  |

## Appendix D: Model Results





# Manhole Inventory

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0002       | 28.12              |                  |                          |                         |
| 0003       | 53.6               |                  | 2400                     |                         |
| 0006       | 24.9               |                  |                          |                         |
| 0007       | 25.52              |                  | 13130                    |                         |
| 0008       | 26.86              |                  | 13130                    |                         |
| 0009       | 28.24              |                  | 13130                    |                         |
| 0010       | 27.78              |                  | 13130                    |                         |
| 0011       | 16.53              |                  | 13130                    |                         |
| 0012       | 16.37              |                  |                          |                         |
| 0013       | 16.45              |                  |                          |                         |
| 0014       | 16.4               |                  |                          |                         |
| 0015       | 16.51              |                  |                          |                         |
| 0016       | 16.37              |                  | 2400                     |                         |
| 0017       | 16.48              |                  | 2400                     |                         |
| 0021       | 27.21              |                  |                          |                         |
| 0022       | 35.83              |                  |                          | 2630                    |
| 0023       | 36.5               |                  | 7090                     |                         |
| 0024       | 38.6               |                  | 7090                     |                         |
| 0025       | 37.97              |                  | 7090                     |                         |
| 0026       | 38.2               |                  | 7090                     |                         |
| 0027       | 38.41              |                  | 7090                     |                         |
| 0028       | 40.42              |                  | 7090                     |                         |
| 0029       | 40                 |                  | 7090                     |                         |
| 0030       | 39.61              |                  | 7090                     |                         |
| 0031       | 57.08              |                  | 7090                     |                         |
| 0032       | 58.68              |                  | 7090                     |                         |
| 0033       | 59.3               |                  |                          |                         |
| 0034       | 86                 |                  | 7090                     |                         |
| 0035       | 89                 |                  | 7090                     |                         |
| 0036       | 90.89              |                  |                          |                         |
| 0037       | 96.61              |                  | 7090                     |                         |
| 0038       | 91.35              |                  | 7090                     |                         |
| 0039       | 58.17              |                  | 7090                     |                         |
| 0040       | 88.76              |                  | 7090                     |                         |
| 0041       | 58.88              |                  | 7090                     |                         |
| 0042       | 85.28              |                  | 7090                     |                         |
| 0043       | 58.96              |                  |                          | 2630                    |
| 0044       | 60.19              |                  |                          |                         |
| 0045       | 84                 |                  | 1490                     |                         |
| 0046       | 57.5               |                  | 7090                     |                         |
| 0047       | 58.71              |                  |                          |                         |
| 0048       | 86.16              |                  | 1490                     |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0049       | 56.04              |                  | 7090                     |                         |
| 0050       | 57.38              |                  |                          |                         |
| 0051       | 88.34              |                  | 7090                     |                         |
| 0052       | 54.85              |                  | 7090                     |                         |
| 0053       | 88.34              |                  | 7090                     |                         |
| 0054       | 51.06              |                  | 7090                     |                         |
| 0055       | 83.06              |                  | 7090                     |                         |
| 0060       | 62.25              |                  | 2400                     |                         |
| 0061       | 68.17              |                  | 2400                     |                         |
| 0062       | 81.83              |                  | 2400                     |                         |
| 0063       | 79.85              |                  | 2400                     |                         |
| 0070       | 70.26              |                  |                          |                         |
| 0071       | 70.61              |                  | 1650                     |                         |
| 0072       | 76.514             |                  | 1650                     |                         |
| 0073       | 78                 |                  | 2400                     |                         |
| 0074       | 80.12              |                  |                          |                         |
| 0075       | 84.57              |                  | 2400                     |                         |
| 0076       | 150                |                  | 2400                     |                         |
| 0077       | 215.67             |                  | 1650                     |                         |
| 0078       | 82.671             |                  | 2400                     |                         |
| 0079       | 97.22              |                  | 2400                     |                         |
| 0080       | 95                 |                  | 2400                     |                         |
| 0081       | 142.99             |                  | 1650                     |                         |
| 0082       | 195.23             |                  | 1650                     |                         |
| 0083       | 213                |                  | 1650                     |                         |
| 0084       | 214.046            |                  |                          | 2630                    |
| 0085       | 210.72             |                  | 1650                     |                         |
| 0086       | 113.42             |                  | 2400                     |                         |
| 0087       | 78.3               |                  | 2400                     |                         |
| 0088       | 79.41              |                  | 1650                     |                         |
| 0089       | 82.79              |                  | 1650                     |                         |
| 0090       | 84.3               |                  | 2400                     |                         |
| 0091       | 86.92              |                  | 2400                     |                         |
| 0101       | 48.91              |                  | 1650                     |                         |
| 0103       | 65.76              |                  |                          |                         |
| 0104       | 73.44              |                  | 1650                     |                         |
| 0105       | 85.4               |                  | 1650                     |                         |
| 0106       | 92                 |                  | 1650                     |                         |
| 0107       | 93.74              |                  | 1650                     |                         |
| 0108       | 67.16              |                  | 1650                     |                         |
| 0109       | 66.97              |                  | 1650                     |                         |
| 0110       | 75                 |                  |                          | 600                     |
| 0111       | 67.58              |                  |                          |                         |
| 0112       | 57.33              |                  | 1650                     |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0113       | 57.34              |                  | 1650                     |                         |
| 0114       | 81.86              |                  | 2400                     |                         |
| 0115       | 55.912             |                  | 2400                     |                         |
| 0116       | 62                 |                  | 2400                     |                         |
| 0121       | 51.55              |                  | 2400                     |                         |
| 0122       | 64.61              |                  | 2400                     |                         |
| 0123       | 82.53              |                  | 2400                     |                         |
| 0124       | 103.73             |                  | 2400                     |                         |
| 0125       | 83.38              |                  | 2400                     |                         |
| 0126       | 73.89              |                  | 2400                     |                         |
| 0127       | 72.56              |                  |                          |                         |
| 0128       | 78.61              |                  | 1650                     |                         |
| 0129       | 74.68              |                  |                          |                         |
| 0130       | 84.31              |                  | 1650                     |                         |
| 0131       | 85.57              |                  | 1650                     |                         |
| 0134       | 50                 |                  | 2400                     |                         |
| 0141       | 37.06              |                  |                          |                         |
| 0142       | 48.99              |                  | 2400                     |                         |
| 0151       | 48.34              |                  | 2400                     |                         |
| 0152       | 50.13              |                  | 2400                     |                         |
| 0153       | 50.76              |                  |                          |                         |
| 0154       | 50.14              |                  | 2400                     |                         |
| 0155       | 63.38              |                  | 2400                     |                         |
| 0156       | 68.307             |                  | 2400                     |                         |
| 0157       | 58.6               |                  | 2400                     |                         |
| 0158       | 70.47              |                  | 2400                     |                         |
| 0159       | 68.85              |                  | 2400                     |                         |
| 0160       | 76.41              |                  | 2400                     |                         |
| 0161       | 62.914             |                  | 2400                     |                         |
| 0170       | 13.34              | ü                |                          |                         |
| 0172       | 14.27              |                  |                          |                         |
| 0173       | 13.36              |                  | 2400                     |                         |
| 0174       | 33.01              |                  | 2400                     |                         |
| 0175       | 14.38              |                  |                          | 2630                    |
| 0176       | 25.23              |                  | 2400                     |                         |
| 0201       | 45                 |                  | 2400                     |                         |
| 0202       | 50.21              |                  | 2400                     |                         |
| 0203       | 75.52              |                  | 2400                     |                         |
| 0204       | 81.13              |                  |                          | 2630                    |
| 0205       | 84.13              |                  |                          | 2630                    |
| 0206       | 88.103             |                  |                          | 2630                    |
| 0207       | 91.89              |                  |                          | 2630                    |
| 0208       | 136.04             |                  | 1650                     |                         |
| 0209       | 140.41             |                  | 1650                     |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0210       | 145.24             |                  | 1650                     |                         |
| 0211       | 198.56             |                  | 1650                     |                         |
| 0212       | 203.41             |                  | 1650                     |                         |
| 0213       | 145.61             |                  | 1650                     |                         |
| 0214       | 165.92             |                  | 1650                     |                         |
| 0215       | 171.93             |                  | 1650                     |                         |
| 0216       | 201.9              |                  | 1650                     |                         |
| 0217       | 157.94             |                  | 1650                     |                         |
| 0218       | 194.92             |                  | 1650                     |                         |
| 0219       | 87.669             |                  |                          |                         |
| 0220       | 90.177             |                  | 2400                     |                         |
| 0221       | 153.4              |                  | 2400                     |                         |
| 0222       | 161.2              |                  | 1650                     |                         |
| 0223       | 53.37              |                  | 2400                     |                         |
| 0224       | 85.4               |                  | 2400                     |                         |
| 0225       | 54.04              |                  | 2630                     |                         |
| 0231       | 41.99              |                  |                          |                         |
| 0232       | 51.54              |                  | 1650                     |                         |
| 0233       | 53.59              |                  | 1650                     |                         |
| 0234       | 56.53              |                  | 2400                     |                         |
| 0235       | 83.21              |                  | 2630                     |                         |
| 0236       | 79.76              |                  | 1650                     |                         |
| 0241       | 38                 |                  | 2640                     |                         |
| 0242       | 51.04              |                  | 1820                     |                         |
| 0243       | 52.47              |                  | 1820                     |                         |
| 0244       | 52.46              |                  |                          |                         |
| 0245       | 53.5               |                  | 2640                     |                         |
| 0246       | 65                 |                  | 2640                     |                         |
| 0247       | 84.11              |                  | 2640                     |                         |
| 0248       | 83.906             |                  |                          |                         |
| 0249       | 84.277             |                  |                          |                         |
| 0250       | 84.326             |                  |                          | 2630                    |
| 0251       | 85.344             |                  |                          |                         |
| 0252       | 95.16              |                  |                          | 2630                    |
| 0253       | 118.91             |                  | 2640                     |                         |
| 0254       | 129.98             |                  | 2640                     |                         |
| 0255       | 129.36             |                  |                          |                         |
| 0256       | 153.92             |                  | 1820                     |                         |
| 0257       | 167.31             |                  | 7260                     |                         |
| 0258       | 186.33             |                  | 1820                     |                         |
| 0259       | 155                |                  | 1820                     |                         |
| 0260       | 164.42             |                  | 1820                     |                         |
| 0261       | 175.34             |                  |                          |                         |
| 0262       | 172.54             |                  |                          |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0263       | 183.25             |                  | 1820                     |                         |
| 0264       | 196                |                  | 1820                     |                         |
| 0265       | 179.36             |                  | 1820                     |                         |
| 0266       | 196.168            |                  | 1820                     |                         |
| 0267       | 189                |                  | 19970                    |                         |
| 0268       | 176.248            |                  | 1820                     |                         |
| 0269       | 180                |                  | 19970                    |                         |
| 0270       | 136.14             |                  | 2640                     |                         |
| 0271       | 150                |                  | 2640                     |                         |
| 0272       | 142.83             |                  | 2640                     |                         |
| 0273       | 151.51             |                  | 1820                     |                         |
| 0274       | 142.99             |                  | 2640                     |                         |
| 0275       | 95.09              |                  | 1650                     |                         |
| 0276       | 101.168            |                  | 1820                     |                         |
| 0277       | 102                |                  | 1820                     |                         |
| 0278       | 86.175             |                  |                          | 2630                    |
| 0279       | 88.52              |                  | 1820                     |                         |
| 0280       | 134.01             |                  | 1820                     |                         |
| 0281       | 144.36             |                  | 1820                     |                         |
| 0282       | 148.08             |                  | 1820                     |                         |
| 0283       | 178.88             |                  | 1820                     |                         |
| 0284       | 193.451            |                  | 1820                     |                         |
| 0285       | 201.55             |                  | 1820                     |                         |
| 0286       | 160.13             |                  | 1820                     |                         |
| 0287       | 84.917             |                  |                          | 2630                    |
| 0288       | 85.22              |                  |                          | 2630                    |
| 0289       | 86.494             |                  |                          |                         |
| 0290       | 86.992             |                  |                          | 2630                    |
| 0291       | 109.5              |                  | 2640                     |                         |
| 0292       | 121                |                  | 2640                     |                         |
| 0293       | 86.693             |                  |                          | 2630                    |
| 0294       | 47.36              |                  | 1820                     |                         |
| 0295       | 51.35              |                  |                          | 600                     |
| 0296       | 51.24              |                  | 1820                     |                         |
| 0297       | 50.76              |                  |                          | 1200                    |
| 0298       | 49.28              |                  |                          | 1200                    |
| 0299       | 57.59              |                  | 2640                     |                         |
| 0300       | 80.09              |                  | 2640                     |                         |
| 0301       | 84.5               |                  | 2640                     |                         |
| 0302       | 87.94              |                  | 2640                     |                         |
| 0303       | 63.23              |                  |                          | 1200                    |
| 0304       | 85.88              |                  | 2640                     |                         |
| 0311       | 35.54              |                  | 2400                     |                         |
| 0312       | 40.27              |                  |                          |                         |



| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0313       | 37.77              |                  |                          | 1200                    |
| 0314       | 43.93              |                  |                          | 1200                    |
| 0315       | 65                 |                  |                          | 1200                    |
| 0316       | 53.47              |                  |                          | 1200                    |
| 0320       | 192.54             | ü                |                          |                         |
| 0321       | 171.595            |                  |                          | 2630                    |
| 0322       | 180                |                  | 1130                     |                         |
| 0323       | 178.08             |                  | 1650                     |                         |
| 0324       | 183.99             |                  | 1650                     |                         |
| 0325       | 197.25             |                  | 1650                     |                         |
| 0326       | 198.56             |                  | 1650                     |                         |
| 0327       | 194.5              |                  | 1650                     |                         |
| 0328       | 195                |                  | 1650                     |                         |
| 0329       | 189.318            |                  | 1650                     |                         |
| 0330       | 179.51             |                  | 18150                    | 2630                    |
| 0501       | 82.2               |                  | 2400                     |                         |
| 0502       | 73.17              |                  | 1650                     |                         |
| 0503       | 32.5               |                  |                          |                         |
| 0504       | 36.45              |                  | 1650                     |                         |
| 0505       | 36.38              |                  | 1650                     |                         |
| 0506       | 38.97              |                  | 1650                     |                         |
| 0507       | 39.37              |                  | 1650                     |                         |
| 0508       | 40.09              |                  | 1650                     |                         |
| 0509       | 52.03              |                  | 1650                     |                         |
| 0510       | 48.84              |                  | 1650                     |                         |
| 0511       | 62                 |                  | 1650                     |                         |
| 0512       | 62.81              |                  |                          |                         |
| 0513       | 61.75              |                  |                          |                         |
| 0514       | 62.47              |                  |                          |                         |
| 0515       | 62.76              |                  |                          |                         |
| 0516       | 65                 |                  | 1650                     |                         |
| 0517       | 67.14              |                  | 1650                     |                         |
| 0518       | 70.37              |                  | 2400                     |                         |
| 0519       | 74.5               |                  | 2400                     |                         |
| 0520       | 78.57              |                  | 1650                     |                         |
| 0521       | 85                 |                  | 1650                     |                         |
| 0522       | 84                 |                  | 2400                     |                         |
| 0523       | 79.6               |                  | 2400                     |                         |
| 0524       | 89.115             |                  | 2400                     |                         |
| 0525       | 66                 |                  |                          |                         |
| 0526       | 59.97              |                  | 1650                     |                         |
| 0527       | 60.36              |                  | 2400                     |                         |
| 0528       | 75.48              |                  | 2400                     |                         |
| 0529       | 88.32              |                  | 2400                     |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0530       | 68.39              |                  | 1650                     |                         |
| 0531       | 75.15              |                  | 2400                     |                         |
| 0532       | 84.35              |                  | 2400                     |                         |
| 0533       | 62.476             |                  |                          |                         |
| 0534       | 73.99              |                  |                          |                         |
| 0535       | 81.91              |                  | 2400                     |                         |
| 0537       | 72                 |                  |                          |                         |
| 0538       | 82.374             |                  |                          |                         |
| 0539       | 82.225             |                  |                          |                         |
| 0540       | 91.75              |                  |                          |                         |
| 0541       | 101.54             |                  | 1650                     |                         |
| 0542       | 114.51             |                  | 1650                     |                         |
| 0543       | 135.635            |                  | 1650                     |                         |
| 0544       | 153.979            |                  | 1650                     |                         |
| 0545       | 158.188            |                  |                          |                         |
| 0546       | 166.266            |                  |                          | 2630                    |
| 0547       | 183.649            |                  |                          | 2630                    |
| 0548       | 194.82             |                  |                          | 2630                    |
| 0549       | 193.95             |                  | 1650                     |                         |
| 0550       | 200.6              |                  | 1650                     |                         |
| 0551       | 142.46             |                  | 1650                     |                         |
| 0552       | 173.32             |                  | 1650                     |                         |
| 0553       | 86.03              |                  |                          |                         |
| 0554       | 100.11             |                  |                          |                         |
| 0555       | 105                |                  | 1650                     |                         |
| 0557       | 120                |                  | 1650                     |                         |
| 0558       | 123                |                  |                          |                         |
| 0559       | 130                |                  | 1650                     |                         |
| 0560       | 140                |                  | 1650                     |                         |
| 0561       | 164.96             |                  | 1650                     |                         |
| 0562       | 176.45             |                  | 1650                     |                         |
| 0563       | 195.14             |                  | 1650                     |                         |
| 0564       | 150.83             |                  | 1650                     |                         |
| 0565       | 160.88             |                  | 1650                     |                         |
| 0566       | 92.223             |                  |                          |                         |
| 0567       | 94.353             |                  |                          |                         |
| 0568       | 110                |                  | 1650                     |                         |
| 0569       | 112                |                  |                          |                         |
| 0570       | 115.61             |                  | 1650                     |                         |
| 0571       | 70                 |                  |                          |                         |
| 0572       | 77                 |                  | 1650                     |                         |
| 0575       | 73                 |                  |                          |                         |
| 0576       | 75                 |                  |                          |                         |
| 0577       | 85                 |                  | 1650                     |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0578       | 92                 |                  | 1650                     |                         |
| 0579       | 100                |                  | 1650                     |                         |
| 0580       | 112                |                  | 1650                     |                         |
| 0581       | 120                |                  | 1650                     |                         |
| 0582       | 63.26              |                  | 1650                     |                         |
| 0583       | 65                 |                  | 1650                     |                         |
| 0584       | 65.938             |                  | 1650                     |                         |
| 0585       | 82.817             |                  | 1650                     |                         |
| 0586       | 61.98              |                  | 1650                     |                         |
| 0587       | 61.6               |                  | 1650                     |                         |
| 0588       | 75                 |                  | 1650                     |                         |
| 0589       | 61.59              |                  | 1650                     |                         |
| 0590       | 40.23              |                  |                          |                         |
| 0591       | 91.78              |                  | 1650                     |                         |
| 0593       | 53.3               |                  | 1650                     |                         |
| 0594       | 44.43              |                  | 1650                     |                         |
| 0595       | 45.27              |                  | 1650                     |                         |
| 0596       | 30.66              |                  | 1650                     |                         |
| 0597       | 30.85              |                  | 1650                     |                         |
| 0598       | 32.49              |                  | 1650                     |                         |
| 0599       | 37.38              |                  | 1650                     |                         |
| 0600       | 36.27              |                  | 1650                     |                         |
| 0601       | 49.24              |                  | 1650                     |                         |
| 0602       | 33                 |                  | 1650                     |                         |
| 0603       | 35.925             |                  |                          |                         |
| 0604       | 60                 |                  |                          |                         |
| 0605       | 60                 |                  |                          |                         |
| 0606       | 53.514             |                  |                          | 7880                    |
| 0607       | 48.79              |                  |                          | 600                     |
| 0608       | 46.6               |                  | 1350                     |                         |
| 0609       | 46.857             |                  |                          |                         |
| 0610       | 45.831             |                  |                          |                         |
| 0611       | 47.49              |                  |                          |                         |
| 0612       | 76.72              |                  | 1350                     |                         |
| 0613       | 83.473             |                  | 1350                     |                         |
| 0614       | 84.164             |                  |                          |                         |
| 0615       | 85.887             |                  |                          |                         |
| 0616       | 89.745             |                  |                          | 2630                    |
| 0617       | 91.934             |                  |                          | 2630                    |
| 0618       | 96.389             |                  |                          | 2630                    |
| 0619       | 103.733            |                  |                          | 2630                    |
| 0620       | 109                |                  |                          | 2630                    |
| 0621       | 114.806            |                  |                          | 2630                    |
| 0623       | 132.2              |                  |                          | 2630                    |

| <b>Manhole ID</b> | <b>Rim Elevation (ft)</b> | <b>Outfall to LACSD</b> | <b>Residential Inflow (gpd)</b> | <b>Commercial Inflow (gpd)</b> |
|-------------------|---------------------------|-------------------------|---------------------------------|--------------------------------|
| 0624              | 137.5                     |                         |                                 | 2630                           |
| 0625              | 142.5                     |                         |                                 | 2630                           |
| 0626              | 148.202                   |                         |                                 | 2630                           |
| 0627              | 155                       |                         |                                 | 2630                           |
| 0628              | 160                       |                         |                                 | 2630                           |
| 0629              | 175                       |                         |                                 | 2630                           |
| 0630              | 180                       |                         |                                 | 2630                           |
| 0631              | 168.33                    |                         |                                 |                                |
| 0632              | 170                       |                         | 1350                            |                                |
| 0633              | 172.84                    |                         | 1350                            |                                |
| 0634              | 185.87                    |                         | 1350                            |                                |
| 0635              | 208.141                   |                         | 1010                            |                                |
| 0636              | 212                       |                         | 1010                            |                                |
| 0637              | 192.79                    |                         | 1350                            |                                |
| 0638              | 198.41                    |                         | 1010                            |                                |
| 0639              | 179.34                    |                         | 1350                            |                                |
| 0640              | 190                       |                         | 1010                            |                                |
| 0641              | 162                       |                         |                                 | 2630                           |
| 0642              | 165                       |                         | 1350                            |                                |
| 0643              | 105.92                    |                         |                                 |                                |
| 0644              | 136.15                    |                         | 1350                            |                                |
| 0645              | 152.13                    |                         | 1010                            |                                |
| 0646              | 183.64                    |                         | 1010                            |                                |
| 0648              | 105.33                    |                         |                                 | 2630                           |
| 0649              | 156.04                    |                         | 1010                            |                                |
| 0650              | 172.56                    |                         | 1010                            |                                |
| 0651              | 180.68                    |                         | 1010                            |                                |
| 0652              | 125                       |                         |                                 | 2630                           |
| 0653              | 174.95                    |                         | 1010                            |                                |
| 0654              | 176                       |                         | 1010                            |                                |
| 0655              | 120                       |                         |                                 | 2630                           |
| 0658              | 176                       |                         | 1010                            |                                |
| 0659              | 84.23                     |                         |                                 |                                |
| 0660              | 84.314                    |                         |                                 | 2630                           |
| 0661              | 86.949                    |                         |                                 | 2630                           |
| 0662              | 155.18                    |                         | 1350                            |                                |
| 0663              | 152.79                    |                         | 1350                            |                                |
| 0664              | 115                       |                         | 1350                            |                                |
| 0665              | 130.45                    |                         | 1350                            |                                |
| 0666              | 143                       |                         | 1350                            |                                |
| 0667              | 147.4                     |                         | 1350                            |                                |
| 0668              | 158.35                    |                         | 1350                            |                                |
| 0669              | 160.73                    |                         |                                 |                                |
| 0670              | 176.1                     |                         | 1010                            |                                |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0671       | 179.59             |                  | 1010                     |                         |
| 0672       | 187.48             |                  | 1010                     |                         |
| 0673       | 194.67             |                  | 1010                     |                         |
| 0674       | 205                |                  | 1010                     |                         |
| 0675       | 200.66             |                  | 1010                     |                         |
| 0676       | 200.27             |                  | 1010                     |                         |
| 0677       | 182.231            |                  | 1010                     |                         |
| 0678       | 181.7              |                  | 1010                     |                         |
| 0679       | 161.89             |                  | 1010                     |                         |
| 0680       | 178.036            |                  | 1010                     |                         |
| 0681       | 200                |                  | 1010                     |                         |
| 0682       | 205                |                  | 1010                     |                         |
| 0683       | 191.96             |                  | 1010                     |                         |
| 0684       | 165                |                  | 1010                     |                         |
| 0685       | 177.97             |                  | 1010                     |                         |
| 0686       | 180.78             |                  | 1010                     |                         |
| 0687       | 86.042             |                  |                          | 2630                    |
| 0688       | 52.62              |                  | 1350                     |                         |
| 0689       | 53.2               |                  | 1350                     |                         |
| 0690       | 54.04              |                  | 1350                     |                         |
| 0691       | 54.76              |                  | 1350                     |                         |
| 0692       | 55.43              |                  | 1350                     |                         |
| 0693       | 88.37              |                  |                          | 600                     |
| 0694       | 97.03              |                  | 1350                     |                         |
| 0695       | 96.85              |                  | 1350                     |                         |
| 0696       | 91.84              |                  | 1350                     |                         |
| 0697       | 47.61              |                  |                          |                         |
| 0698       | 50.45              |                  |                          |                         |
| 0699       | 88.68              |                  | 1350                     |                         |
| 0700       | 81.46              |                  | 1350                     |                         |
| 0701       | 46.085             |                  |                          |                         |
| 0702       | 67                 |                  | 1350                     |                         |
| 0703       | 49.21              |                  | 1350                     |                         |
| 0704       | 49.37              |                  | 1350                     |                         |
| 0705       | 49.764             |                  | 1350                     |                         |
| 0706       | 65                 |                  | 1350                     |                         |
| 0707       | 67.42              |                  | 1350                     |                         |
| 0708       | 54.99              |                  | 1350                     |                         |
| 0709       | 63.36              |                  | 1350                     |                         |
| 0710       | 70                 |                  | 1350                     |                         |
| 0711       | 53.88              |                  |                          | 2630                    |
| 0712       | 54.14              |                  |                          | 2630                    |
| 0713       | 54.13              |                  |                          | 2630                    |
| 0714       | 55.11              |                  |                          | 2630                    |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0715       | 56.55              |                  |                          | 2630                    |
| 0717       | 76.99              |                  | 1350                     |                         |
| 0718       | 55.89              |                  |                          | 2630                    |
| 0719       | 60                 |                  | 1350                     |                         |
| 0720       | 55.43              |                  | 1350                     |                         |
| 0722       | 63.83              |                  |                          |                         |
| 0723       | 65.124             |                  |                          |                         |
| 0724       | 67.209             |                  | 1010                     |                         |
| 0725       | 71.57              |                  | 1010                     |                         |
| 0726       | 76.49              |                  | 1010                     |                         |
| 0727       | 73.2               |                  | 1010                     |                         |
| 0728       | 77.59              |                  | 1010                     |                         |
| 0729       | 82.59              |                  | 1010                     |                         |
| 0730       | 83.384             |                  | 1010                     |                         |
| 0731       | 85.215             |                  | 1490                     |                         |
| 0732       | 111.746            |                  | 1490                     |                         |
| 0734       | 122.63             |                  |                          | 2630                    |
| 0735       | 120.43             |                  | 1010                     |                         |
| 0736       | 167.76             |                  | 1350                     |                         |
| 0737       | 107.53             |                  | 1010                     |                         |
| 0738       | 145.997            |                  | 1010                     |                         |
| 0739       | 94.07              |                  | 1010                     |                         |
| 0740       | 135.856            |                  | 1010                     |                         |
| 0741       | 167.491            |                  | 1010                     |                         |
| 0742       | 176.712            |                  |                          | 2630                    |
| 0743       | 182.731            |                  |                          | 2630                    |
| 0744       | 84.534             |                  | 1010                     |                         |
| 0745       | 93.92              |                  | 1010                     |                         |
| 0746       | 103                |                  |                          | 2630                    |
| 0747       | 98.21              |                  | 1010                     |                         |
| 0748       | 91.04              |                  | 1010                     |                         |
| 0749       | 91.11              |                  | 1010                     |                         |
| 0750       | 78.495             |                  | 1010                     |                         |
| 0751       | 84.4               |                  |                          | 2630                    |
| 0752       | 105.557            |                  |                          |                         |
| 0753       | 106.352            |                  |                          |                         |
| 0754       | 113.619            |                  |                          | 2630                    |
| 0755       | 118.933            |                  |                          | 2630                    |
| 0756       | 131.271            |                  | 1350                     |                         |
| 0757       | 136.788            |                  |                          | 2630                    |
| 0758       | 166.387            |                  |                          | 2630                    |
| 0759       | 182.607            |                  |                          | 2630                    |
| 0761       | 146.68             |                  |                          |                         |
| 0762       | 154                |                  |                          |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0763       | 165.99             |                  |                          |                         |
| 0764       | 174.16             |                  | 1010                     |                         |
| 0765       | 175.25             |                  | 1010                     |                         |
| 0766       | 175.2              |                  |                          |                         |
| 0767       | 181.77             |                  | 1010                     |                         |
| 0768       | 177.328            |                  |                          | 2630                    |
| 0769       | 195.61             |                  | 1010                     |                         |
| 0770       | 196.61             |                  | 1010                     |                         |
| 0771       | 186.28             |                  | 1010                     |                         |
| 0772       | 169.12             |                  | 1010                     |                         |
| 0773       | 172                |                  | 1010                     |                         |
| 0774       | 147.169            |                  | 1350                     |                         |
| 0775       | 152.55             |                  | 1350                     |                         |
| 0776       | 166.07             |                  | 1010                     |                         |
| 0777       | 162.72             |                  | 1010                     |                         |
| 0778       | 163                |                  | 1010                     |                         |
| 0779       | 119.4              |                  |                          |                         |
| 0780       | 158.16             |                  | 1010                     |                         |
| 0781       | 172.64             |                  | 1010                     |                         |
| 0782       | 185.995            |                  |                          |                         |
| 0783       | 187.07             |                  | 1010                     |                         |
| 0784       | 194                |                  | 1010                     |                         |
| 0785       | 192.4              |                  | 1350                     |                         |
| 0786       | 172.87             |                  | 1010                     |                         |
| 0787       | 189.45             |                  | 1010                     |                         |
| 0788       | 158.77             |                  | 1010                     |                         |
| 0790       | 164.13             |                  | 1010                     |                         |
| 0791       | 163.43             |                  | 1010                     |                         |
| 0792       | 165.27             |                  | 1010                     |                         |
| 0793       | 186.62             |                  | 1010                     |                         |
| 0794       | 137.52             |                  | 1010                     |                         |
| 0795       | 152.75             |                  | 1010                     |                         |
| 0796       | 167.86             |                  | 1010                     |                         |
| 0797       | 170.52             |                  | 1010                     |                         |
| 0798       | 152.65             |                  | 1010                     |                         |
| 0799       | 170                |                  | 1010                     |                         |
| 0800       | 143.78             |                  | 1010                     |                         |
| 0801       | 88                 |                  | 1350                     |                         |
| 0802       | 89                 |                  |                          | 600                     |
| 0805       | 59                 |                  |                          |                         |
| 0806       | 80                 |                  |                          | 2630                    |
| 0807       | 92.803             |                  |                          | 2630                    |
| 0808       | 95.033             |                  |                          |                         |
| 0809       | 96.39              |                  |                          |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0810       | 100                |                  |                          |                         |
| 0811       | 105                |                  |                          |                         |
| 0812       | 111.91             |                  |                          |                         |
| 0813       | 112.44             |                  |                          |                         |
| 0815       | 134.59             |                  |                          | 2630                    |
| 0816       | 140.97             |                  |                          | 2630                    |
| 0817       | 150.251            |                  |                          | 2630                    |
| 0818       | 165                |                  |                          | 2630                    |
| 0819       | 177                |                  |                          | 2630                    |
| 0820       | 181.738            |                  |                          | 2630                    |
| 0821       | 180.39             |                  | 1490                     |                         |
| 0822       | 181.7              |                  |                          |                         |
| 0823       | 181.06             |                  | 1490                     |                         |
| 0824       | 182.07             |                  | 1490                     |                         |
| 0825       | 190                |                  | 2160                     |                         |
| 0826       | 194.17             |                  | 1490                     |                         |
| 0827       | 194.15             |                  | 1490                     |                         |
| 0828       | 207.52             |                  | 1490                     |                         |
| 0829       | 209                |                  | 1490                     |                         |
| 0830       | 191.29             |                  | 1490                     |                         |
| 0831       | 208.64             |                  | 1490                     |                         |
| 0832       | 210.82             |                  | 2160                     |                         |
| 0833       | 217.12             |                  | 2160                     |                         |
| 0834       | 215                |                  | 2160                     |                         |
| 0835       | 157.45             |                  | 2160                     |                         |
| 0836       | 171.24             |                  | 1490                     |                         |
| 0837       | 149.69             |                  | 1490                     |                         |
| 0838       | 170.3              |                  | 1490                     |                         |
| 0840       | 130.16             |                  |                          |                         |
| 0841       | 144.37             |                  |                          | 2630                    |
| 0842       | 146.47             |                  | 1490                     |                         |
| 0844       | 150                |                  | 1490                     |                         |
| 0845       | 94.39              |                  |                          | 2630                    |
| 0846       | 155                |                  | 1490                     |                         |
| 0847       | 167.35             |                  | 1490                     |                         |
| 0849       | 169.9              |                  | 1490                     |                         |
| 0850       | 185.3              |                  | 1490                     |                         |
| 0851       | 167.47             |                  | 1490                     |                         |
| 0852       | 175                |                  | 1490                     |                         |
| 0853       | 164.62             |                  | 1490                     |                         |
| 0854       | 168.4              |                  | 1490                     |                         |
| 0855       | 171.12             |                  | 1490                     |                         |
| 0856       | 95.745             |                  |                          | 2630                    |
| 0857       | 118.01             |                  | 2160                     |                         |



| <b>Manhole ID</b> | <b>Rim Elevation (ft)</b> | <b>Outfall to LACSD</b> | <b>Residential Inflow (gpd)</b> | <b>Commercial Inflow (gpd)</b> |
|-------------------|---------------------------|-------------------------|---------------------------------|--------------------------------|
| 0858              | 170.08                    |                         | 2160                            |                                |
| 0859              | 40                        |                         |                                 | 600                            |
| 0860              | 45                        |                         | 1130                            |                                |
| 0861              | 55.73                     |                         |                                 |                                |
| 0862              | 58.77                     |                         |                                 | 2630                           |
| 0863              | 56.099                    |                         |                                 | 2630                           |
| 0864              | 58.091                    |                         |                                 | 2630                           |
| 0865              | 68.39                     |                         | 2400                            |                                |
| 0866              | 55.07                     |                         | 1130                            |                                |
| 0867              | 141.78                    |                         | 1490                            |                                |
| 0868              | 70                        |                         | 1650                            |                                |
| 1001              | 13.11                     |                         |                                 |                                |
| 1002              | 13.21                     |                         |                                 |                                |
| 1003              | 13.3                      |                         |                                 |                                |
| 1004              | 13.73                     |                         | 2400                            |                                |
| 1005              | 14.09                     |                         | 2400                            |                                |
| 1006              | 14.53                     |                         | 2400                            |                                |
| 1007              | 15.03                     |                         |                                 |                                |
| 1008              | 15.27                     |                         |                                 |                                |
| 1009              | 15.78                     |                         | 2400                            |                                |
| 1010              | 16.45                     |                         |                                 |                                |
| 1011              | 16.79                     |                         |                                 |                                |
| 1012              | 15.785                    |                         |                                 |                                |
| 1013              | 15.49                     |                         |                                 |                                |
| 1014              | 16.11                     |                         |                                 |                                |
| 1016              | 15.06                     |                         |                                 |                                |
| 1017              | 16.04                     |                         |                                 | 2630                           |
| 1018              | 15.976                    |                         |                                 |                                |
| 1019              | 16.38                     |                         |                                 |                                |
| 1020              | 16.95                     |                         |                                 |                                |
| 1021              | 18.49                     |                         | 2400                            |                                |
| 1022              | 20.25                     |                         |                                 |                                |
| 1023              | 22.82                     |                         | 2400                            |                                |
| 1024              | 24.71                     |                         |                                 |                                |
| 1025              | 26.55                     |                         | 2400                            |                                |
| 1026              | 27.26                     |                         | 2400                            |                                |
| 1027              | 29.01                     |                         | 2400                            |                                |
| 1028              | 30.29                     |                         | 2400                            |                                |
| 1029              | 30.13                     |                         | 2400                            |                                |
| 1030              | 29.35                     |                         | 2400                            |                                |
| 1031              | 29.24                     |                         | 2400                            |                                |
| 1032              | 28.98                     |                         | 2400                            |                                |
| 1033              | 28.42                     |                         | 2400                            |                                |
| 1034              | 28.16                     |                         | 2400                            |                                |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 1035       | 33.908             |                  | 2400                     |                         |
| 1036       | 30.61              |                  |                          |                         |
| 1037       | 42.58              |                  | 1650                     |                         |
| 1038       | 40.51              |                  |                          |                         |
| 1039       | 51.98              |                  | 1650                     |                         |
| 1040       | 87.46              |                  | 1650                     |                         |
| 1041       | 94.22              |                  | 1650                     |                         |
| 1042       | 53.85              |                  | 1650                     |                         |
| 1043       | 45.87              |                  | 1650                     |                         |
| 1044       | 47.64              |                  | 1650                     |                         |
| 1045       | 78.12              |                  | 1650                     |                         |
| 1046       | 82.29              |                  | 1650                     |                         |
| 1047       | 92.8               |                  | 1650                     |                         |
| 1048       | 92.716             |                  | 1650                     |                         |
| 1049       | 87.99              |                  | 1650                     |                         |
| 1052       | 33.43              |                  |                          | 2630                    |
| 1053       | 32.79              |                  | 2400                     |                         |
| 1054       | 31.06              |                  |                          |                         |
| 1055       | 42.58              |                  | 1650                     |                         |
| 1056       | 45.27              |                  |                          |                         |
| 1057       | 47.38              |                  | 1650                     |                         |
| 1058       | 70.611             |                  | 1650                     |                         |
| 1059       | 77.74              |                  | 1650                     |                         |
| 1060       | 55.7               |                  | 1650                     |                         |
| 1061       | 61.39              |                  | 1650                     |                         |
| 1062       | 77.88              |                  | 1650                     |                         |
| 1065       | 34.68              |                  | 2400                     |                         |
| 1066       | 63.42              |                  | 2400                     |                         |
| 1067       | 28.19              |                  |                          |                         |
| 1068       | 32.45              |                  | 2400                     |                         |
| 1069       | 39.08              |                  | 2400                     |                         |
| 1070       | 42.13              |                  | 2400                     |                         |
| 1071       | 50                 |                  | 2400                     |                         |
| 1072       | 16.25              |                  |                          |                         |
| 1073       | 14.54              |                  |                          |                         |
| 1074       | 14.34              |                  |                          |                         |
| 1075       | 14.72              |                  |                          |                         |
| 1076       | 14.82              |                  | 2400                     |                         |
| 1077       | 14.59              |                  | 2400                     |                         |
| 1078       | 14.75              |                  | 2400                     |                         |
| 1079       | 13.94              |                  | 2400                     |                         |
| 1080       | 15.08              |                  | 2400                     |                         |
| 1081       | 15.14              |                  | 2400                     |                         |
| 1082       | 15.91              |                  | 2400                     |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 1083       | 17.04              |                  | 1650                     |                         |
| 1084       | 20                 |                  | 1650                     |                         |
| 1085       | 17.5               |                  |                          |                         |
| 1086       | 17.56              |                  | 1650                     |                         |
| 1087       | 16.6               |                  | 1650                     |                         |
| 1088       | 17.07              |                  |                          | 2630                    |
| 1089       | 16.82              |                  | 2400                     |                         |
| 1090       | 14.83              |                  |                          | 2630                    |
| 1091       | 13.9               |                  |                          | 2630                    |
| 1092       | 15.23              |                  |                          |                         |
| 1093       | 13.23              |                  |                          | 2630                    |
| 1094       | 13.37              |                  |                          | 2630                    |
| 1095       | 13                 |                  |                          | 2630                    |
| 1096       | 13                 |                  | 2400                     |                         |
| 1097       | 13                 |                  | 2400                     |                         |
| 1098       | 13                 |                  | 2400                     |                         |
| 1099       | 12.87              |                  | 2400                     |                         |
| 1100       | 14                 |                  | 2400                     |                         |
| 1101       | 15.14              |                  | 2400                     |                         |
| 1102       | 16.864             |                  | 2400                     |                         |
| 1104       | 15.055             |                  |                          |                         |
| 1105       | 16.54              |                  |                          |                         |
| 1106       | 15.37              |                  | 2400                     |                         |
| 1107       | 14.33              |                  |                          |                         |
| 1108       | 14.44              |                  | 2400                     |                         |
| 1110       | 20.43              |                  |                          |                         |
| 1111       | 23.36              |                  | 2400                     |                         |
| 1112       | 20.22              |                  | 2400                     |                         |
| 1113       | 25.19              |                  | 2400                     |                         |
| 1114       | 25                 |                  | 2400                     |                         |
| 1115       | 28.24              |                  | 2400                     |                         |
| 1116       | 37.78              |                  |                          |                         |
| 1117       | 45.82              |                  | 2400                     |                         |
| 1119       | 41.48              |                  | 2400                     |                         |
| 1120       | 28.89              |                  | 2400                     |                         |
| 1121       | 38.78              |                  | 2400                     |                         |
| 1122       | 41.46              |                  | 2400                     |                         |
| 1123       | 36.17              |                  | 2400                     |                         |
| 1124       | 31.32              |                  | 2400                     |                         |
| 1125       | 17.42              |                  | 2400                     |                         |
| 1126       | 16.68              |                  | 2400                     |                         |
| 1127       | 14.11              |                  |                          |                         |
| 1128       | 21.67              |                  | 2400                     |                         |
| 1129       | 28.04              |                  | 2400                     |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 1130       | 33.03              |                  | 2400                     |                         |
| 1131       | 33.29              |                  |                          |                         |
| 1132       | 30.35              |                  | 2400                     |                         |
| 1133       | 40.26              |                  | 2400                     |                         |
| 1134       | 51.308             |                  | 2400                     |                         |
| 1135       | 37.87              |                  | 2400                     |                         |
| 1136       | 35.39              |                  | 2400                     |                         |
| 1137       | 30                 |                  | 2400                     |                         |
| 1138       | 22.48              |                  |                          |                         |
| 1139       | 20.89              |                  | 2400                     |                         |
| 1140       | 15.79              |                  |                          | 2630                    |
| 1142       | 14.57              |                  |                          | 2630                    |
| 1143       | 16.03              |                  | 2400                     |                         |
| 1144       | 15.6               |                  | 2400                     |                         |
| 1145       | 33.39              |                  | 2400                     |                         |
| 1152       | 57.12              |                  |                          |                         |
| 1153       | 65.52              |                  | 2400                     |                         |
| 1154       | 17.718             |                  | 2400                     |                         |
| 1155       | 16.98              |                  |                          |                         |
| 1156       | 16.88              |                  | 2400                     |                         |
| 1158       | 15.25              |                  | 2400                     |                         |
| 1159       | 15.8               |                  |                          | 2630                    |
| 1160       | 14.396             |                  |                          | 2630                    |
| 1165       | 143.13             |                  | 1010                     |                         |
| 1169       | 13.69              |                  |                          | 2630                    |
| 0036A      | 91.08              |                  |                          |                         |
| 0081A      | 126.34             |                  |                          |                         |
| 0082A      | 178.29             |                  | 1650                     |                         |
| 0101A      | 37.08              |                  |                          |                         |
| 0108A      | 66.17              |                  |                          |                         |
| 0121A      | 49.37              |                  | 2400                     |                         |
| 0123A      | 77.268             |                  | 2400                     |                         |
| 0126A      | 70                 |                  | 2400                     |                         |
| 0132X      | 92.59              |                  | 1650                     |                         |
| 0133X      | 84.49              |                  |                          |                         |
| 0141A      | 39.335             |                  | 2400                     |                         |
| 0142A      | 47.37              |                  |                          |                         |
| 0142B      | 45.79              |                  |                          |                         |
| 0142C      | 36.8               |                  |                          |                         |
| 0143X      | 53.234             |                  | 2400                     |                         |
| 0152A      | 49.79              |                  | 2400                     |                         |
| 0153B      | 50.55              |                  | 2400                     |                         |
| 0153C      | 50.01              |                  | 2400                     |                         |
| 0154A      | 54.25              |                  | 2400                     |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0159A      | 67.77              |                  | 2400                     |                         |
| 0159B      | 71.32              |                  | 2400                     |                         |
| 0160A      | 73.39              |                  | 2400                     |                         |
| 0160B      | 70.3               |                  | 2400                     |                         |
| 0204A      | 78.8               |                  | 2400                     |                         |
| 0209A      | 143                |                  |                          |                         |
| 0232A      | 51.11              |                  | 1650                     |                         |
| 0296A      | 54.36              |                  |                          | 1200                    |
| 0324A      | 186.3              |                  | 1650                     |                         |
| 0324B      | 187.971            |                  | 1650                     |                         |
| 0324C      | 192.235            |                  | 1650                     |                         |
| 0324D      | 190.061            |                  | 1650                     |                         |
| 0324E      | 211.77             |                  |                          |                         |
| 0324F      | 217.61             |                  | 1650                     |                         |
| 0324G      | 200                |                  | 1650                     |                         |
| 0504A      | 36.44              |                  | 1650                     |                         |
| 0504B      | 35                 |                  | 1650                     |                         |
| 0504C      | 34                 |                  | 1650                     |                         |
| 0504D      | 33                 |                  |                          |                         |
| 0505A      | 40.32              |                  | 1650                     |                         |
| 0512A      | 62.86              |                  | 1650                     |                         |
| 0521A      | 84.27              |                  | 1650                     |                         |
| 0522A      | 82.36              |                  | 2400                     |                         |
| 0526A      | 63.09              |                  |                          |                         |
| 0544A      | 169.867            |                  |                          | 2630                    |
| 0567A      | 95.368             |                  | 1650                     |                         |
| 0582A      | 62.53              |                  | 1650                     |                         |
| 0589A      | 42.56              |                  | 1650                     |                         |
| 0591A      | 46.57              |                  | 1650                     |                         |
| 0603A      | 40                 |                  |                          |                         |
| 0609A      | 46.805             |                  |                          |                         |
| 0641A      | 163                |                  | 1350                     |                         |
| 0648A      | 132.9              |                  | 1010                     |                         |
| 0652A      | 150                |                  | 1010                     |                         |
| 0656A      | 173.22             |                  | 1010                     |                         |
| 0662A      | 124.21             |                  |                          | 2630                    |
| 0687A      | 83.35              |                  |                          |                         |
| 0687B      | 83.259             |                  |                          | 2630                    |
| 0687C      | 83.718             |                  |                          |                         |
| 0688A      | 87.53              |                  | 1350                     |                         |
| 0688B      | 53.36              |                  |                          |                         |
| 0688C      | 55.76              |                  |                          |                         |
| 0688D      | 87.63              |                  | 1350                     |                         |
| 0693B      | 69.78              |                  |                          |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 0703A      | 64.393             |                  |                          |                         |
| 0716X      | 66.01              |                  |                          | 2630                    |
| 0732A      | 147.879            |                  | 1490                     |                         |
| 0751A      | 87.73              |                  |                          |                         |
| 0752A      | 102.049            |                  |                          | 2630                    |
| 0752B      | 88.45              |                  |                          |                         |
| 0763A      | 164                |                  | 1010                     |                         |
| 0764A      | 174.84             |                  |                          |                         |
| 0764B      | 177.43             |                  |                          | 2630                    |
| 0764C      | 175.43             |                  | 1010                     |                         |
| 0782A      | 183                |                  | 1010                     |                         |
| 0784A      | 189.8              |                  | 1010                     |                         |
| 0801A      | 87                 |                  | 1350                     |                         |
| 0811A      | 102.5              |                  |                          | 2630                    |
| 0816A      | 146.628            |                  |                          | 2630                    |
| 0818A      | 166.45             |                  | 1490                     |                         |
| 0822A      | 175                |                  |                          |                         |
| 0825A      | 183.37             |                  |                          |                         |
| 0844A      | 115                |                  |                          |                         |
| 0848X      | 168.53             |                  | 1490                     |                         |
| 0856A      | 100                |                  |                          |                         |
| 0859A      | 35                 |                  |                          |                         |
| 0860A      | 44                 |                  |                          |                         |
| 0864A      | 61.5               |                  |                          | 2630                    |
| 0864B      | 75.056             |                  | 2400                     |                         |
| 0864C      | 58.126             |                  |                          |                         |
| 1008A      | 14.76              |                  |                          |                         |
| 1008B      | 14.8               |                  | 2400                     |                         |
| 1014A      | 15                 |                  |                          | 2630                    |
| 1014B      | 15.6               |                  |                          |                         |
| 1014C      | 15.6               |                  |                          |                         |
| 1038A      | 47                 |                  |                          |                         |
| 1050X      | 92.18              |                  | 1650                     |                         |
| 1057A      | 64.99              |                  | 1650                     |                         |
| 1059A      | 77.72              |                  |                          |                         |
| 1059B      | 82.44              |                  | 1650                     |                         |
| 1063A      | 31.38              |                  |                          |                         |
| 1063B      | 31.1               |                  | 2400                     |                         |
| 1067A      | 26                 |                  |                          | 2630                    |
| 1068A      | 33.54              |                  | 2400                     |                         |
| 1068B      | 36.5               |                  | 2400                     |                         |
| 1070A      | 47.96              |                  | 2400                     |                         |
| 1070B      | 41.24              |                  |                          | 2630                    |
| 1073A      | 15                 |                  |                          |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 1076A      | 15.92              |                  | 2400                     |                         |
| 1077A      | 16.32              |                  | 2400                     |                         |
| 1078A      | 16.57              |                  | 2400                     |                         |
| 1079A      | 17.49              |                  | 2400                     |                         |
| 1080A      | 17.29              |                  | 2400                     |                         |
| 1081A      | 17.56              |                  | 2400                     |                         |
| 1082A      | 15.8               |                  | 2400                     |                         |
| 1083A      | 16.56              |                  | 2400                     |                         |
| 1084A      | 21.54              |                  | 1650                     |                         |
| 1085A      | 18                 |                  | 1650                     |                         |
| 1092A      | 15.15              |                  |                          | 2630                    |
| 1093A      | 15.23              |                  |                          |                         |
| 1093B      | 14.84              |                  |                          |                         |
| 1093C      | 14.83              |                  |                          |                         |
| 1094A      | 13.46              |                  |                          | 2630                    |
| 1094B      | 14.93              |                  |                          | 2630                    |
| 1095A      | 15.88              |                  | 2400                     |                         |
| 1095B      | 13.18              |                  |                          |                         |
| 1096A      | 16.09              |                  | 2400                     |                         |
| 1097A      | 15.65              |                  | 2400                     |                         |
| 1098A      | 15.28              |                  | 2400                     |                         |
| 1099A      | 14.99              |                  | 2400                     |                         |
| 1100A      | 14.8               |                  | 2400                     |                         |
| 1101A      | 14.73              |                  | 2400                     |                         |
| 1102A      | 14.6               |                  | 2400                     |                         |
| 1103X      | 17.2               |                  | 2400                     |                         |
| 1105A      | 15.57              |                  | 2400                     |                         |
| 1106A      | 14.8               |                  |                          |                         |
| 1107A      | 14.733             |                  |                          |                         |
| 1108A      | 14.07              |                  |                          |                         |
| 1110A      | 17.05              |                  | 2400                     |                         |
| 1110B      | 21.01              |                  |                          |                         |
| 1115A      | 34.14              |                  | 2400                     |                         |
| 1115B      | 29.35              |                  | 2400                     |                         |
| 1115C      | 32.5               |                  | 2400                     |                         |
| 1128A      | 26.079             |                  | 2400                     |                         |
| 1132A      | 28.92              |                  | 2400                     |                         |
| 1132B      | 30                 |                  | 2400                     |                         |
| 1132C      | 29.81              |                  | 2400                     |                         |
| 1132D      | 32.57              |                  |                          |                         |
| 1132E      | 55                 |                  | 2400                     |                         |
| 1132F      | 54.99              |                  | 2400                     |                         |
| 1132G      | 27.78              |                  |                          |                         |
| 1132H      | 27.43              |                  |                          |                         |

| Manhole ID | Rim Elevation (ft) | Outfall to LACSD | Residential Inflow (gpd) | Commercial Inflow (gpd) |
|------------|--------------------|------------------|--------------------------|-------------------------|
| 1141X      | 17.58              |                  | 2400                     |                         |
| 1142A      | 13.907             |                  | 2400                     |                         |
| 1144A      | 15.67              |                  | 2400                     |                         |
| C/OA       | 201                |                  | 1650                     |                         |
| C/OB       | 201                |                  | 1650                     |                         |
| C0001      | 27                 | ü                |                          |                         |
| C0005      | 26                 | ü                |                          |                         |
| C0020      | 26                 | ü                |                          |                         |
| C0050      | 27                 | ü                |                          |                         |
| C0100      | 35                 | ü                |                          |                         |
| C0120      | 32.5               | ü                |                          |                         |
| C0140      | 37                 | ü                |                          |                         |
| C0150      | 48.3               | ü                |                          |                         |
| C0200      | 45                 | ü                |                          |                         |
| C0230      | 42                 | ü                |                          |                         |
| C0240      | 37                 | ü                |                          |                         |
| C0310      | 35.4               | ü                |                          |                         |
| C0500      | 36                 | ü                |                          |                         |
| C2107      | 30                 | ü                | 2400                     |                         |
| C2109      | 31                 | ü                |                          |                         |
| Cap        | 100                |                  |                          | 3500                    |
| CAP1       | 25                 |                  |                          |                         |
| Cap2       | 182.7              |                  |                          |                         |
| Cap3       | 85                 |                  |                          |                         |
| Cap4       | 39                 |                  |                          |                         |
| CAP5       | 120                |                  |                          |                         |
| CAP6       | 120                |                  |                          |                         |
| CO_0596    | 32                 |                  |                          |                         |
| CO2        | 90                 |                  |                          |                         |
| MB         | 60                 | ü                |                          |                         |
| PS         | 17                 |                  |                          |                         |





## FIELD VERIFICATION

The hydraulic modeling relies on survey data input. The majority of City owned manholes were surveyed for rim elevation and pipe invert elevations. However, some manholes were inaccessible during survey and data was not collected. During modeling, the missing data was estimated based on rim elevations, if available, and the elevations of adjacent pipes. The inexact nature of the estimated data increases the error inherent in the model results. It is recommended that this estimated data be field verified to help validate the model results. Table D-1 lists the estimated rim elevations for manholes and Table D 2 lists estimated pipe inverts.

**Table D 1: Estimated Rim Elevations**

| Manhole with Estimated Rim Elevation | Estimated Rim Elevation |
|--------------------------------------|-------------------------|
| 0023                                 | 36.5                    |
| 0026                                 | 38.2                    |
| 0029                                 | 40                      |
| 0045                                 | 84                      |
| 0046                                 | 57.5                    |
| 0073                                 | 78                      |
| 0076                                 | 150                     |
| 0080                                 | 95                      |
| 0083                                 | 213                     |
| 0087                                 | 78.3                    |
| 0106                                 | 92                      |
| 0110                                 | 75                      |
| 0126A                                | 70                      |
| 0134                                 | 50                      |
| 0241                                 | 38                      |
| 0245                                 | 53.5                    |
| 0259                                 | 155                     |
| 0264                                 | 196                     |
| 0267                                 | 189                     |
| 0269                                 | 180                     |
| 0271                                 | 150                     |
| 0277                                 | 102                     |
| 0292                                 | 121                     |
| 0315                                 | 65                      |
| 0322                                 | 180                     |
| 0324G                                | 200                     |
| 0328                                 | 195                     |
| 0503                                 | 32.5                    |
| 0504B                                | 35                      |
| 0504C                                | 34                      |
| 0504D                                | 33                      |
| 0511                                 | 62                      |
| 0516                                 | 65                      |
| 0519                                 | 74.5                    |
| 0521                                 | 85                      |

| Manhole with<br>Estimated Rim<br>Elevation | Estimated Rim<br>Elevation |
|--------------------------------------------|----------------------------|
| 0522                                       | 84                         |
| 0525                                       | 66                         |
| 0537                                       | 72                         |
| 0555                                       | 105                        |
| 0557                                       | 120                        |
| 0558                                       | 123                        |
| 0559                                       | 130                        |
| 0560                                       | 140                        |
| 0568                                       | 110                        |
| 0571                                       | 70                         |
| 572                                        | 77                         |
| 0575                                       | 73                         |
| 0576                                       | 75                         |
| 0577                                       | 85                         |
| 0578                                       | 92                         |
| 0579                                       | 100                        |
| 0580                                       | 112                        |
| 0581                                       | 120.00                     |
| 0583                                       | 65                         |
| 0588                                       | 75                         |
| 0602                                       | 33                         |
| 0603A                                      | 40                         |
| 0604                                       | 60                         |
| 0605                                       | 60                         |
| 0620                                       | 109                        |
| 0624                                       | 137.5                      |
| 0625                                       | 142.5                      |
| 0627                                       | 155                        |
| 0628                                       | 160                        |
| 0629                                       | 175                        |
| 0630                                       | 180                        |
| 0632                                       | 170                        |
| 0636                                       | 212                        |
| 0640                                       | 190                        |
| 0641                                       | 162                        |
| 0641A                                      | 163                        |
| 0642                                       | 165                        |
| 0652                                       | 125                        |
| 0652A                                      | 150                        |
| 0654                                       | 176                        |
| 0655                                       | 120                        |
| 0658                                       | 176                        |
| 0664                                       | 115                        |
| 0666                                       | 143                        |
| 0674                                       | 205                        |
| 0681                                       | 200                        |
| 0682                                       | 205                        |
| 0684                                       | 165                        |
| 0706                                       | 65                         |
| 0710                                       | 70                         |
| 0719                                       | 60                         |

| Manhole with<br>Estimated Rim<br>Elevation | Estimated Rim<br>Elevation |
|--------------------------------------------|----------------------------|
| 0746                                       | 103                        |
| 0762                                       | 154                        |
| 0763A                                      | 164                        |
| 0773                                       | 172                        |
| 0778                                       | 163                        |
| 0782A                                      | 183                        |
| 0784                                       | 194                        |
| 0799                                       | 170                        |
| 0801                                       | 88                         |
| 0801A                                      | 87                         |
| 0802                                       | 89                         |
| 0805                                       | 59                         |
| 0806                                       | 80                         |
| 0810                                       | 100                        |
| 0811                                       | 105                        |
| 0811A                                      | 102.5                      |
| 0818                                       | 165                        |
| 0819                                       | 177                        |
| 0822A                                      | 175                        |
| 0825                                       | 190                        |
| 0829                                       | 209                        |
| 0834                                       | 215                        |
| 0844                                       | 150                        |
| 0844A                                      | 115                        |
| 0846                                       | 155                        |
| 0852                                       | 175                        |
| 0856A                                      | 100                        |
| 0859                                       | 34                         |
| 0859A                                      | 35                         |
| 0860A                                      | 33                         |
| 0868                                       | 70                         |
| 1014A                                      | 15                         |
| 1014B                                      | 15.6                       |
| 1014C                                      | 15.6                       |
| 1038A                                      | 47                         |
| 1067A                                      | 26                         |
| 1071                                       | 50                         |
| 1073A                                      | 15                         |
| 1084                                       | 20                         |
| 1085                                       | 17.5                       |
| 1085A                                      | 18                         |
| 1087                                       | 16.6                       |
| 1095                                       | 13                         |
| 1096                                       | 13                         |
| 1097                                       | 13                         |
| 1098                                       | 13                         |
| 1100                                       | 14                         |
| 1100A                                      | 14.8                       |
| 1102A                                      | 14.6                       |
| 1103X                                      | 17.2                       |
| 1106A                                      | 14.8                       |

| Manhole with<br>Estimated Rim<br>Elevation | Estimated Rim<br>Elevation |
|--------------------------------------------|----------------------------|
| 1115C                                      | 32.5                       |
| 1132E                                      | 55                         |
| 1137                                       | 30                         |

**Table D 2: Estimated Pipe Inverts**

| <b>Pipe ID</b> | <b><i>Estimated Invert Elevations<br/>Denoted by *</i></b> |                              |
|----------------|------------------------------------------------------------|------------------------------|
|                | <b>Upstream<br/>Invert</b>                                 | <b>Downstream<br/>Invert</b> |
| 1014-1014B     | 6.16                                                       | 5.85*                        |
| 1014A-1016     | 6.93*                                                      | 6.67                         |
| 1014B-1014C    | 5.85*                                                      | 5.82*                        |
| 1014C-1013     | 5.82*                                                      | 5.61                         |
| 1017-1016      | 7.47*                                                      | 6.67*                        |
| 101A-C0100     | 30.86                                                      | 27.60*                       |
| 102-101        | 46.88*                                                     | 42.23                        |
| 1035-1034      | 32.57*                                                     | 26.82                        |
| 1036-C2107     | 25.77*                                                     | 25.20*                       |
| 1038A-1038     | 40.80*                                                     | 39.05                        |
| 1053-1036      | 29.00                                                      | 25.77*                       |
| 1054-C2109     | 25.70*                                                     | 25.32*                       |
| 106-105        | 87.00*                                                     | 81.03                        |
| 1063-1054      | 25.79*                                                     | 25.72                        |
| 1069-C0500     | 33.88                                                      | 19.32*                       |
| 107-1001       | 3.00                                                       | 3.06*                        |
| 1071-1070      | 37.43*                                                     | 36.50*                       |
| 1072-1014      | 7.32*                                                      | 6.16                         |
| 1084-1083      | 14.84*                                                     | 14.10                        |
| 1084A-1084     | 14.87                                                      | 14.84*                       |
| 1085-1084A     | 14.97*                                                     | 14.92                        |
| 1085-1085A     | 14.99*                                                     | 14.97*                       |
| 1086-1085      | 15.42                                                      | 14.99*                       |
| 1087-1086      | 16.00*                                                     | 15.43                        |
| 108A-1153      | 61.69                                                      | 60.64*                       |
| 109-103        | 62.77                                                      | 61.58                        |
| 1090-1014      | 6.34*                                                      | 6.34                         |
| 1095-1095B     | 8.50*                                                      | 7.90                         |
| 1095A-1095     | 10.68                                                      | 8.50*                        |
| 1096-1095      | 9.15*                                                      | 8.50*                        |
| 1097-1096      | 9.80                                                       | 9.15*                        |
| 1097A-1097     | 11.84                                                      | 9.80*                        |
| 1098-1097      | 10.46*                                                     | 9.80*                        |
| 1098A-1098     | 11.76                                                      | 10.46*                       |
| 1099-1098      | 11.12*                                                     | 10.46*                       |
| 11-PS          | 9.82*                                                      | 9.41*                        |
| 110-109        | 71.00*                                                     | 63.05                        |
| 1100-1099      | 11.83*                                                     | 11.12                        |

|              | <b><i>Estimated Invert Elevations<br/>Denoted by *</i></b> |         |
|--------------|------------------------------------------------------------|---------|
| 1100A-1100   | 12.50*                                                     | 11.83*  |
| 1101-1100    | 12.53                                                      | 11.83*  |
| 1102A-1102   | 13.50*                                                     | 12.92   |
| 1103X-1102   | 12.93                                                      | 12.95*  |
| 1105-1104    | 6.80*                                                      | 6.66    |
| 1106-1106A   | 9.21                                                       | 8.17*   |
| 1106A-1008   | 8.17*                                                      | 4.13    |
| 1107-1106A   | 8.56                                                       | 8.17*   |
| 1115C-1115B  | 28.00*                                                     | 25.23   |
| 1120-1110    | 19.67                                                      | 13.12*  |
| 1127-1004    | 11.34*                                                     | 4.65*   |
| 1132B-1132C  | 22.00*                                                     | 19.62   |
| 1132C-1132D  | 19.55                                                      | 19.31   |
| 1132D-1132E  | 19.18                                                      | 14.38*  |
| 1132E-1132F  | 14.38*                                                     | 11.94*  |
| 1132F-1132G  | 11.94*                                                     | 9.13    |
| 1132H-County | 3.02                                                       | 30.00*  |
| 1136-1129    | 32.52                                                      | 22.50*  |
| 1137-1129    | 24.00*                                                     | 22.12   |
| 1138-1128    | 17.81                                                      | 15.00*  |
| 116-112      | 52.00*                                                     | 47.65*  |
| 1160-1091    | 6.74*                                                      | 7.16    |
| 1166-502     | 24.16*                                                     | 20.09*  |
| 1196A-1096   | 11.64                                                      | 9.15*   |
| 121-C0120    | 46.28                                                      | 43.01*  |
| 126-126A     | 63.19                                                      | 62.27*  |
| 134-122      | 50.00*                                                     | 49.91*  |
| 141-C0140    | 31.16*                                                     | 30.00*  |
| 142-143X     | 45.97                                                      | 48.65*  |
| 151-C0150    | 37.81*                                                     | 35.00*  |
| 153-153B     | 41.04                                                      | 40.92*  |
| 17-16        | 13.20*                                                     | 12.99   |
| 174-173      | 8.00*                                                      | 7.52*   |
| 0002-C0001   | 24.53*                                                     | 20.00*  |
| 201-C0200    | 38.69*                                                     | 37.00*  |
| 209A-209     | 135.00*                                                    | 134.23* |
| 21-C02       | 22.97                                                      | 20.00*  |
| 23-22        | 30.98*                                                     | 30.59   |
| 231-C0230    | 37.66                                                      | 36.00*  |
| 233-232      | 48.32                                                      | 46.06*  |

|           | <b><i>Estimated Invert Elevations<br/>Denoted by *</i></b> |         |
|-----------|------------------------------------------------------------|---------|
| 236-232A  | 70.00*                                                     | 47.97   |
| 24-23     | 31.55                                                      | 30.98*  |
| 241-C0240 | 33.08*                                                     | 31.52*  |
| 242-241   | 46.75                                                      | 33.08*  |
| 259-256   | 150.00*                                                    | 148.48  |
| 26-25     | 33.14*                                                     | 32.11   |
| 260-259   | 159.78                                                     | 150.00* |
| 264-263   | 187.00*                                                    | 174.45  |
| 267-262   | 184.00*                                                    | 168.01  |
| 269-260   | 175.00*                                                    | 159.72  |
| 27-26     | 34.13                                                      | 33.14*  |
| 271-270   | 142.00*                                                    | 128.30  |
| 277-276   | 97.00*                                                     | 96.38   |
| 278-249   | 78.98                                                      | 76.93   |
| 279-278   | 81.07                                                      | 79.26   |
| 28-27     | 34.70*                                                     | 34.13*  |
| 29-28     | 35.45*                                                     | 34.70   |
| 290-252   | 80.75                                                      | 80.00*  |
| 292-253   | 115.00*                                                    | 112.45  |
| 294-241   | 39.50                                                      | 33.08*  |
| 30-29     | 36.28*                                                     | 35.45*  |
| 301-300   | 80.57                                                      | 75.50*  |
| 311-C0310 | 31.67                                                      | 31.52*  |
| 314-313   | 37.22                                                      | 34.00*  |
| 315-314   | 58.00*                                                     | 37.22   |
| 322-321   | 173.00*                                                    | 169.37  |
| 323-322   | 175.32                                                     | 173.00* |
| 324B-324A | 183.00*                                                    | 181.35  |
| 324C-324B | 185.22                                                     | 183.00* |
| 324E-324G | 207.00*                                                    | 196.00* |
| 324G-324C | 196.00*                                                    | 185.27  |
| 328-327   | 192.00*                                                    | 191.42  |
| 329-322   | 180.00*                                                    | 173.00* |
| 39-29     | 54.69                                                      | 35.45*  |
| 41-28     | 54.69                                                      | 34.70*  |
| 43-27     | 56.29                                                      | 34.13*  |
| 45-44     | 80.00*                                                     | 56.83   |
| 46-26     | 51.25*                                                     | 33.14*  |
| 47-46     | 55.02                                                      | 51.25*  |
| 49-25     | 53.27                                                      | 32.11*  |



|           | <b><i>Estimated Invert Elevations<br/>Denoted by *</i></b> |         |
|-----------|------------------------------------------------------------|---------|
| 501-C05   | 19.73*                                                     | 19.32*  |
| 502-501   | 20.09*                                                     | 19.73*  |
| 504A-504B | 30.12                                                      | 28.89*  |
| 504B-504C | 28.89*                                                     | 26.94*  |
| 504C-504D | 26.94*                                                     | 24.61*  |
| 504D-503  | 24.61*                                                     | 24.16*  |
| 511-510   | 45.00*                                                     | 43.52   |
| 512A-511  | 47.40                                                      | 45.00*  |
| 516-515   | 53.50*                                                     | 53.10   |
| 517-516   | 63.62                                                      | 58.00*  |
| 519-518   | 70.00*                                                     | 66.36   |
| 52-24     | 51.24                                                      | 31.53*  |
| 520-519   | 74.44                                                      | 70.00*  |
| 521-521A  | 82.00*                                                     | 80.89   |
| 522-522A  | 81.00*                                                     | 79.10   |
| 522A-519  | 79.12                                                      | 71.00*  |
| 523-518   | 76.38                                                      | 66.35*  |
| 525-516   | 54.00*                                                     | 53.50*  |
| 530-525   | 55.13                                                      | 54.00*  |
| 537-515   | 64.00*                                                     | 53.23   |
| 538-511   | 48.00*                                                     | 45.00*  |
| 538-537   | 76.91                                                      | 64.00*  |
| 54-23     | 47.22                                                      | 30.98*  |
| 540-539   | 85.83                                                      | 76.25*  |
| 544-543   | 147.00*                                                    | 127.61  |
| 544A-544  | 163.35                                                     | 147.00* |
| 545-544   | 149.63                                                     | 147.00* |
| 550-549   | 195.00*                                                    | 188.61* |
| 554-553   | 90.00*                                                     | 81.23   |
| 555-554   | 100.00*                                                    | 90.00*  |
| 557-555   | 115.00*                                                    | 100.00* |
| 557-558   | 120.00*                                                    | 115.00* |
| 559-558   | 130.00*                                                    | 120.00* |
| 560-559   | 140.00*                                                    | 130.00* |
| 561-560   | 160.41                                                     | 140.00* |
| 564-558   | 142.51                                                     | 120.00* |
| 568-567   | 100.00*                                                    | 89.82*  |
| 569-568   | 103.90                                                     | 100.00* |
| 571-514   | 59.00*                                                     | 51.63   |
| 572-571   | 66.00*                                                     | 59.00*  |

|          | <b><i>Estimated Invert Elevations<br/>Denoted by *</i></b> |         |
|----------|------------------------------------------------------------|---------|
| 575-513  | 63.00*                                                     | 50.80   |
| 576-575  | 65.00*                                                     | 63.00*  |
| 577-576  | 75.00*                                                     | 65.00*  |
| 578-577  | 82.00*                                                     | 75.00*  |
| 579-578  | 90.00*                                                     | 82.00*  |
| 580-579  | 102.00*                                                    | 90.00*  |
| 581-580  | 110.00*                                                    | 102.00* |
| 584-510  | 60.00*                                                     | 43.62   |
| 585-584  | 80.05                                                      | 60.00*  |
| 588-587  | 70.00*                                                     | 56.53   |
| 596-502  | 26.54                                                      | 20.09*  |
| 60-MB    | 58.90                                                      | 58.00*  |
| 602-502  | 24.56*                                                     | 20.09*  |
| 603-602  | 26.82                                                      | 24.56*  |
| 603A-603 | 28.45*                                                     | 26.80   |
| 604-603A | 30.59*                                                     | 28.45*  |
| 605-604  | 32.28*                                                     | 30.59*  |
| 606-605  | 35.89                                                      | 32.28*  |
| 609-608  | 39.00*                                                     | 38.00*  |
| 609-609A | 39.69                                                      | 39.00*  |
| 61-60    | 65.05*                                                     | 58.75   |
| 616-615  | 80.00*                                                     | 78.34   |
| 617-616  | 83.71                                                      | 80.00*  |
| 620-619  | 105.00*                                                    | 99.30   |
| 621-620  | 111.46                                                     | 105.00* |
| 624-623  | 133.00*                                                    | 129.43  |
| 625-624  | 139.00*                                                    | 133.00* |
| 626-625  | 145.18                                                     | 139.00* |
| 627-626  | 150.00*                                                    | 145.24  |
| 628-627  | 153.00*                                                    | 150.00* |
| 629-628  | 155.00*                                                    | 153.00* |
| 630-629  | 175.00*                                                    | 155.00* |
| 631-629  | 160.58                                                     | 155.00* |
| 632-631  | 165.00*                                                    | 160.57  |
| 633-632  | 169.40                                                     | 165.00* |
| 636-635  | 208.00*                                                    | 204.63  |
| 640-639  | 185.00*                                                    | 175.38  |
| 641-628  | 157.00*                                                    | 153.00* |
| 641A-641 | 158.00*                                                    | 157.00* |
| 642-641  | 160.00*                                                    | 157.00* |

|           | <b><i>Estimated Invert Elevations<br/>Denoted by *</i></b> |         |
|-----------|------------------------------------------------------------|---------|
| 652-616   | 121.00*                                                    | 85.00*  |
| 652A-652  | 146.00*                                                    | 121.00* |
| 653-652A  | 172.51                                                     | 146.00* |
| 654-653   | 174.00*                                                    | 172.55  |
| 655-615   | 115.00*                                                    | 78.43   |
| 656A-655  | 168.14                                                     | 115.00* |
| 658-656A  | 171.00*                                                    | 168.16  |
| 664-660   | 110.00*                                                    | 78.86   |
| 665-664   | 125.23                                                     | 110.00* |
| 666-665   | 137.00*                                                    | 125.22  |
| 667-666   | 141.30                                                     | 137.00* |
| 674-673   | 200.00*                                                    | 189.63  |
| 677-669   | 176.88*                                                    | 155.00* |
| 681-680   | 173.31                                                     | 173.25* |
| 682-681   | 180.00*                                                    | 173.31* |
| 683-682   | 186.98                                                     | 180.00* |
| 684-679   | 160.00*                                                    | 156.39  |
| 706-705   | 49.62*                                                     | 47.12   |
| 709-708   | 59.42                                                      | 42.34*  |
| 71-70     | 65.78                                                      | 65.00*  |
| 71-MB     | 65.00*                                                     | 58.00*  |
| 710-709   | 66.00*                                                     | 59.38   |
| 719-718   | 55.00*                                                     | 50.37   |
| 72-71     | 74.00*                                                     | 65.00*  |
| 722-605   | 54.27                                                      | 32.28*  |
| 73-72     | 74.06*                                                     | 74.00*  |
| 732-731   | 106.00*                                                    | 81.82   |
| 732A-732  | 143.85                                                     | 106.00* |
| 74-73     | 74.16                                                      | 74.06*  |
| 746-745   | 97.00*                                                     | 87.10   |
| 748-745   | 88.00*                                                     | 87.15   |
| 752-752A  | 100.00*                                                    | 94.32   |
| 753-752   | 101.99                                                     | 100.00* |
| 76-75     | 145.00*                                                    | 77.91   |
| 762-761   | 145.00*                                                    | 142.66  |
| 763-762   | 156.65                                                     | 145.00* |
| 763A-766  | 156.66*                                                    | 156.65* |
| 764-763A  | 169.44                                                     | 156.66* |
| 764B-764C | 174.00*                                                    | 173.67* |
| 764C-764A | 173.67                                                     | 171.10* |

|           | <b><i>Estimated Invert Elevations<br/>Denoted by *</i></b> |         |
|-----------|------------------------------------------------------------|---------|
| 765-764A  | 171.62                                                     | 171.10* |
| 767-766   | 180.35                                                     | 172.00* |
| 768-766   | 172.49                                                     | 172.00* |
| 769-766   | 190.42                                                     | 172.00* |
| 77-76     | 210.70                                                     | 145.00* |
| 773-762   | 165.00*                                                    | 148.00* |
| 778-756   | 155.00*                                                    | 124.61  |
| 782-782A  | 177.41                                                     | 175.00* |
| 782A-781  | 175.00*                                                    | 165.00* |
| 784-784A  | 188.00*                                                    | 184.00* |
| 784A-783  | 184.00*                                                    | 182.37  |
| 794-752   | 133.80                                                     | 100.00* |
| 799-798   | 165.00*                                                    | 147.71  |
| 80-79     | 92.20                                                      | 80.00*  |
| 801-801A  | 84.00*                                                     | 83.00*  |
| 801A-751  | 83.00*                                                     | 81.80*  |
| 802-801   | 85.00*                                                     | 84.00*  |
| 806-805   | 72.00*                                                     | 55.00*  |
| 807-806   | 84.71                                                      | 72.00*  |
| 810-809   | 96.00*                                                     | 92.11   |
| 811-811A  | 100.00*                                                    | 98.00*  |
| 811A-810  | 98.00*                                                     | 96.00*  |
| 812-811   | 104.81                                                     | 100.00* |
| 813-812   | 108.29                                                     | 104.81* |
| 818-817   | 155.00*                                                    | 145.33  |
| 818A-818  | 159.72                                                     | 155.00* |
| 819-818   | 172.00*                                                    | 155.00* |
| 81A-80    | 123.41                                                     | 92.20*  |
| 820-819   | 176.62                                                     | 172.00* |
| 822-822A  | 176.66                                                     | 168.00* |
| 822A-818A | 168.00*                                                    | 159.75  |
| 825-825A  | 186.00*                                                    | 180.42  |
| 829-828   | 204.00*                                                    | 203.04  |
| 83-82     | 198.00*                                                    | 189.08  |
| 834-833   | 211.00*                                                    | 209.25  |
| 84-83     | 206.68                                                     | 198.00* |
| 844-844A  | 142.00*                                                    | 108.00* |
| 844A-808  | 108.00*                                                    | 89.07   |
| 846-845   | 149.00*                                                    | 86.37   |
| 847-846   | 161.28                                                     | 149.00* |

|            | <b><i>Estimated Invert Elevations<br/>Denoted by *</i></b> |         |
|------------|------------------------------------------------------------|---------|
| 852-851    | 169.00*                                                    | 161.81  |
| 859-859A   | 37.83*                                                     | 31.86*  |
| 859A-603   | 31.86*                                                     | 27.00   |
| 860-860A   | 29.16                                                      | 40.47*  |
| 860A-859   | 40.47*                                                     | 37.83*  |
| 868-516    | 63.00*                                                     | 58.00*  |
| 87-73      | 74.10*                                                     | 74.06*  |
| 88-70      | 75.70*                                                     | 65.79   |
| 89-88      | 80.21                                                      | 75.70*  |
| C/O-596    | 27.00*                                                     | 26.54*  |
| C/O-748    | 89.00*                                                     | 88.00*  |
| C/OA-550   | 196.00*                                                    | 195.00* |
| C/OB-550   | 196.00*                                                    | 195.00* |
| C2107-1023 | 25.50*                                                     | 16.82   |
| CAP-1021   | 25.00*                                                     | 14.27   |
| Cap-141A   | 37.00*                                                     | 35.94*  |
| Cap-567    | 96.00*                                                     | 91.06*  |
| Cap-731    | 83.00*                                                     | 81.50*  |

## Appendix E: E-Size Maps





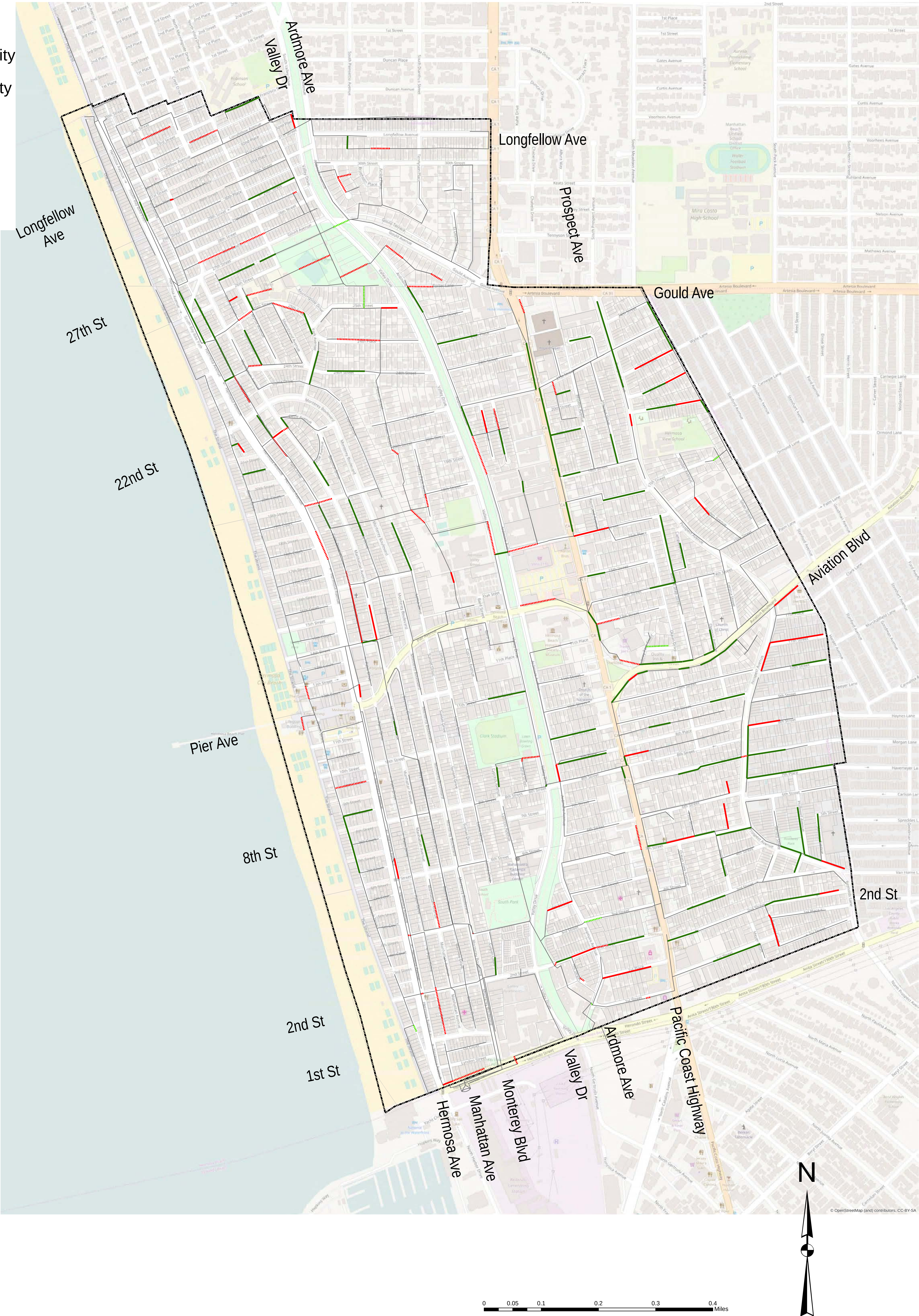


# Recommended Structural Rehabilitation



## Legend

- Sewer Pipelines
- Replacement - High Priority
- Replacement - Low Priority
- Relining - High Priority
- Relining - Low Priority
- City Parcel
- City of Hermosa Beach





# High d/D Locations - Existing Conditions

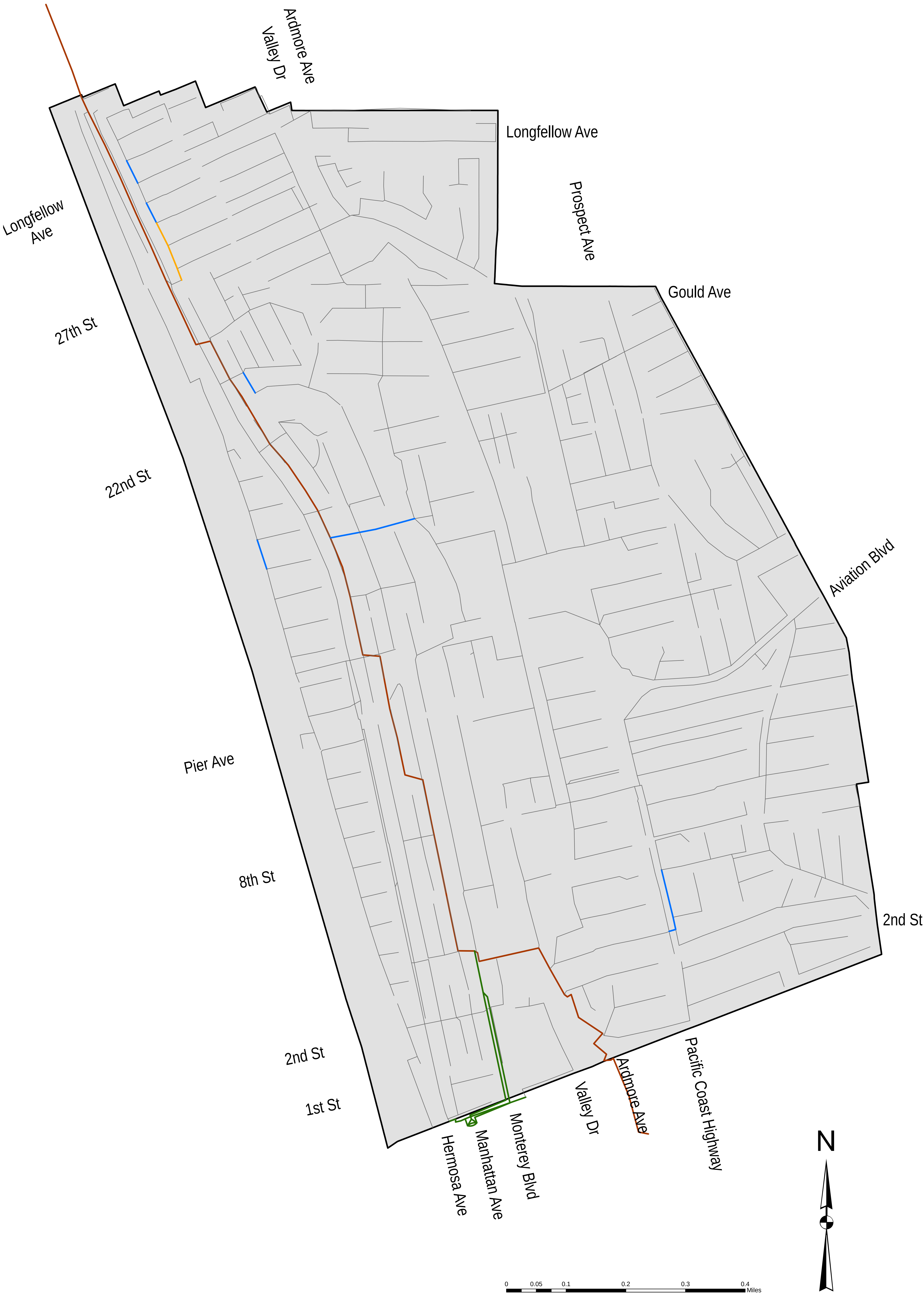


## Legend

- South Bay Cities Main Trunk Line
- Herondo Street Sewer Line

### Max d/D (depth/diameter)

- 0 to 0.5
  - >0.5 to 0.75
  - >0.75 to 1.0
- City of Hermosa Beach



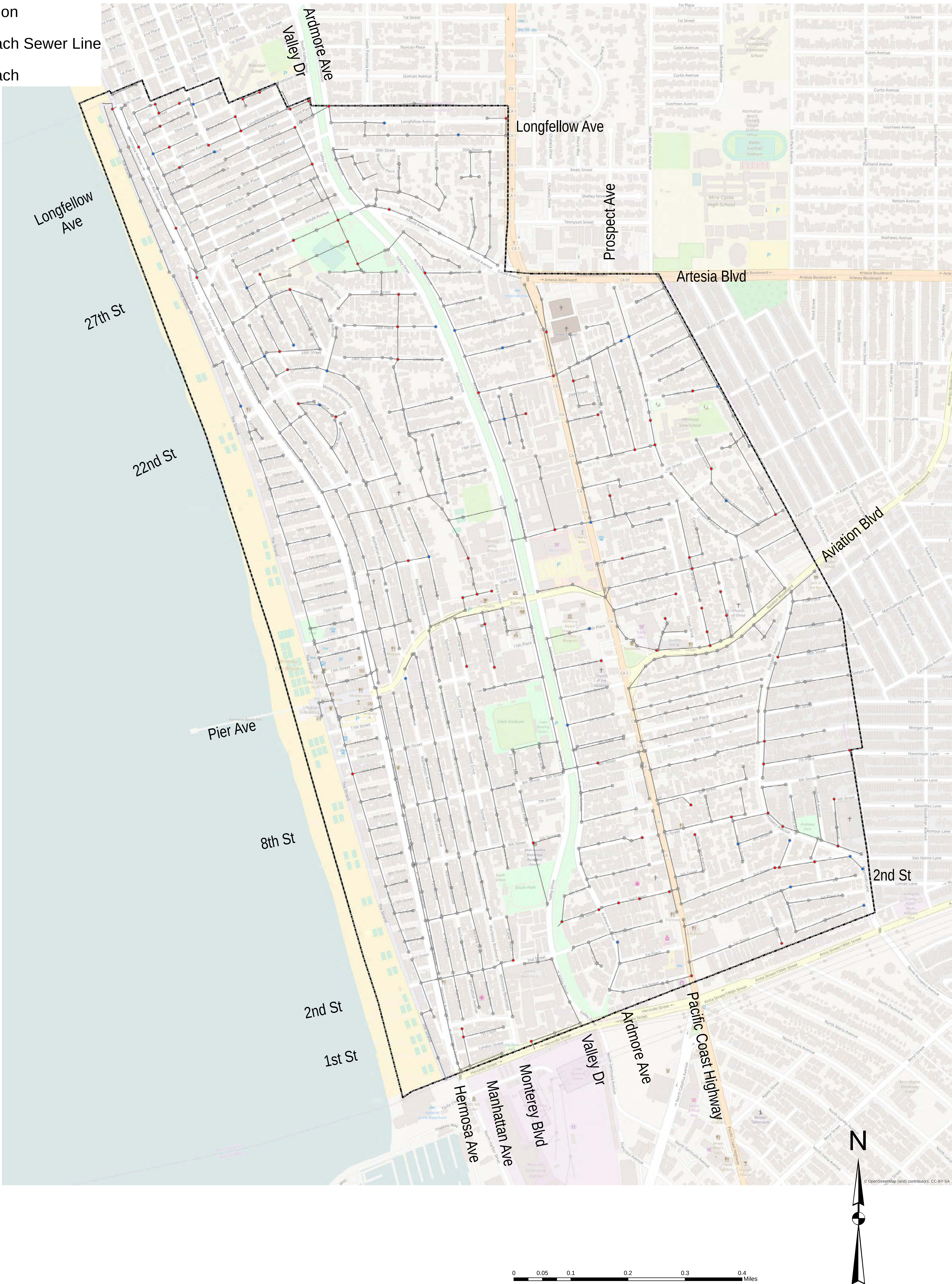


# Manhole Replacement/Rehabilitation



## Legend

- Manhole Replacement
- Manhole Rehabilitation
- City of Hermosa Beach Sewer Line
- ▭ City of Hermosa Beach





# Sewer Master Plan • August 2017



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